



**EPS**

Escola Politécnica  
Superior

## **Projecte/Treball Fi de Carrera**

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**Títol:** Aplicacions de la fibra òptica a la monitorització d'estructures:  
Influència dels canvis de temperatura.

**Document:** Annexos

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**Àrea:** Mecànica dels medis continus i teoria de les estructures

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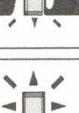
## Annex A.- Catàlegs utilitzats.

### A.1.- Sensors extensomètrics i òptics.

**VISHAY  
PRECISION  
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**Other Linear Patterns**  
Micro-Measurements **MEME**

**General Purpose Strain Gages**

<b>GAGE PATTERN</b>	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	<b>GAGE LENGTH</b>					
			Inches	millimeters				
<b>008CL</b>  actual size	SA	120	0.008	0.2				
Micro-grid gage for strain measurement in high-gradient areas.								
Matrix size: 0.20L x 0.13W in. (5.1L x 3.3W mm)								
<b>015CK</b>  actual size	EA, WA, EP, SA	120	0.015	0.38				
Micro-miniature pattern with enlarged solder tabs. See also 015UW pattern.								
Matrix size: 0.19L x 0.15W in. (4.8L x 3.8W mm)								
<b>015EH</b>  actual size	EA, EP, SA, SK	120	0.015	0.38				
Micro-miniature pattern with tab at each side of grid.								
Matrix size: 0.15L x 0.19W in. (3.8L x 4.8W mm)								
<b>015LA</b>  actual size	EA, EP	120	0.015	0.38				
Primarily used in small radii where gage tabs must be at one end.								
Matrix size: 0.18L x 0.10W in. (4.6L x 2.5W mm)								
<b>015LW</b>  actual size	C2A	120	0.015	0.38				
Encapsulated constantan gages with preattached ready-to-use cables.								
Matrix size: 0.08L x 0.05W in. (1.9L x 1.4W mm)								
<b>015SE</b>  actual size	EA, EP, SA	120	0.015	0.38				
Micro-miniature pattern with tabs on one side for use near abutments.								
Matrix size: 0.16L x 0.14W in. (4.1L x 3.6W mm)								
<b>030LB</b>  actual size	EA, EP, SA	120	0.03	0.76				
Miniature gage pattern for small radii where gage tabs must be at one end.								
Matrix size: 0.24L x 0.15W in. (6.1L x 3.8W mm)								

Note 1: Products with designations and options shown in bold are not RoHS compliant.

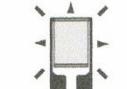
See [www.vishay.com/strain-gages](http://www.vishay.com/strain-gages) for complete specifications.

## Other Linear Patterns

**MEME** Micro-Measurements



### General Purpose Strain Gages

GAGE PATTERN	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	GAGE LENGTH	
			inches	millimeters
<b>031MF</b>  actual size	EA, SA	120	0.031	0.79
		Miniature ten-element strip gage with electrically independent grids. All grids parallel to long axis of pattern. Grid centerline spacing 0.080 in (2.03 mm).		
		Matrix size: 0.94L x 0.19W in. (23.9L x 4.8W mm)		
<b>032SG</b>  actual size	EA, WA, WK, EP, SA, SK	120	0.032	0.81
		Miniature gage with side-tab geometry.		
		Matrix size: 0.16L x 0.19W in. (4.1L x 4.8W mm)		
<b>045AL</b>  actual size	EA, SA	350	0.045	1.14
		Miniature high-resistance gage.		
		Matrix size: 0.22L x 0.14W in. (5.6L x 3.6W mm)		
<b>050AH</b>  actual size	EA, ED, EP, SA, SK, SD	120, 350	0.05	1.27
		General-purpose miniature gage.		
		Matrix size: 0.23L x 0.14W in. (5.8L x 3.6W mm)		
<b>050AR</b>  actual size	EA, ED, WA, WK, SA, SK, SD, WD	120, 350	0.05	1.27
		General-purpose miniature gage with large solder tabs.		
		Matrix size: 0.25L x 0.18W in. (6.4L x 4.6W mm)		
<b>050SB</b>  actual size	EA, ED, WA, WK, EP, SA, SK, SD, WD	120, 350	0.05	1.27
		Similar to the 050AH pattern but with solder tabs at side of grid.		
		Matrix size: 0.19L x 0.19W in. (4.8L x 4.8W mm)		

Note 1: Products with designations and options shown in bold are not RoHS compliant.

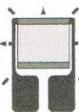
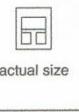
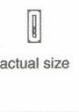
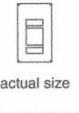
See [www.vishay.com/strain-gages](http://www.vishay.com/strain-gages) for complete specifications.



## Other Linear Patterns

Micro-Measurements

### General Purpose Strain Gages

GAGE PATTERN	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	GAGE LENGTH	
			inches	millimeters
<b>060CD</b>  actual size 	EA, ED, WA, WK, <b>SA</b> , SK, SD, WD	350, 1000	0.06	1.52
Small high-resistance gage. See also 060CN pattern. Matrix size: 0.28L x 0.20W in. (7.1L x 5.1W mm)				
<b>060CN</b>  actual size 	EA, ED, WA, WK, EP, <b>SA</b> , SD, WD	120, 350	0.06	1.52
Similar to 060CD pattern except for grid resistance. Matrix size: 0.26L x 0.18W in. (6.6L x 4.6W mm)				
<b>060CP</b>  actual size 	EA, ED, WA, WK, EP, <b>SA</b> , SK, SD, WD	120, 350	0.06	1.52
Small high-resistance gage with high power-handling capability. Matrix size: 0.31L x 0.26W in. (7.9L x 6.6W mm)				
<b>062DF</b>  actual size 	EA, ED, WA, WK, EP, <b>SA</b> , SK, SD, WD	120, 350	0.062	1.57
General-purpose gage with solder tab at each end of grid. See also 062DN pattern. Matrix size: 0.32L x 0.16W in. (8.1L x 4.1W mm)				
<b>070LC</b>  actual size 	EA	120, 350	0.07	1.78
Very narrow gage for use in restricted areas. Matrix size: 0.24L x 0.09W in. (6.1L x 2.3W mm)				
<b>090DG</b>  actual size 	EA, ED, EP, <b>SA</b> , SK, SD	120, 350	0.09	2.29
Intermediate-size grid with tab at each end. See also 090DH and 090EF patterns. Matrix size: 0.44L x 0.263W in. (11.2L x 6.6W mm)				

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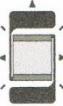
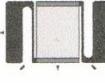
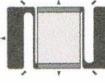
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## Other Linear Patterns

**MEME** Micro-Measurements



### General Purpose Strain Gages

GAGE PATTERN	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	GAGE LENGTH	
			inches	millimeters
<b>090DH</b>  actual size	EA, ED, EP, SA, SK, SD	350, 1000	0.09	2.29
			High-resistance version of the 090DG pattern. Matrix size: 0.45L x 0.27W in. (11.4L x 6.9W mm)	
<b>090EF</b>  actual size	EA, ED, EP, SA, SK, SD	120, 350	0.09	2.29
			Similar to 090DG pattern but with solder tab at each side of grid. See also 090EG pattern. Matrix size: 0.29L x 0.36W in. (7.4L x 9.1W mm)	
<b>090EG</b>  actual size	EA, ED, EP, SA, SK, SD	350, 1000	0.09	2.29
			High-resistance version of the 090EF pattern. Matrix size: 0.29L x 0.36W in. (7.4L x 9.1W mm)	
<b>125BS</b>  actual size	ED, WK, SK, SD, WD	120	0.125	3.18
			Narrow pattern primarily used in the WK and SK Series for 120-ohm resistance. Matrix size: 0.38L x 0.14W in. (9.7L x 3.6W mm)	
<b>125EP</b>  actual size	EA, ED, EP, SA, SK, SD	350, 1000	0.125	3.18
			High-resistance gage with tab at each side of grid. See also 125EQ pattern. Matrix size: 0.28L x 0.35W in. (7.1L x 8.9W mm)	
<b>125EQ</b>  actual size	EA, ED, EP, SA, SK, SD	120, 350	0.125	3.18
			Similar to 125EP pattern except for grid resistance. Matrix size: 0.28L x 0.35W in. (7.1L x 8.9W mm)	

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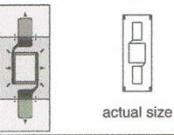
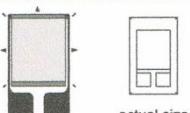
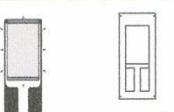
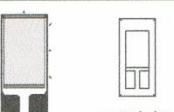
See [www.vishay.com/strain-gages](http://www.vishay.com/strain-gages) for complete specifications.



## Other Linear Patterns

Micro-Measurements

### General Purpose Strain Gages

GAGE PATTERN	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	GAGE LENGTH	
			inches	millimeters
<b>125MG</b>		EA, WA, WK, SA, SK	120, 350	0.125 3.18
 actual size <small>Dual-pattern gage for use in back-to-back bending applications. Longitudinal grid centerlines spaced 0.250 in (6.35 mm) apart.</small> <small>Matrix size: 0.32L x 0.47W in. (8.1L x 11.9W mm)</small>				
<b>125UE</b>		CEA	120, 350	0.125 3.18
 actual size <small>General-purpose gage with large tab at each end of grid. Exposed solder tab area 0.08 x 0.07 in (2.0 x 1.8 mm).</small> <small>Matrix size: 0.57L x 0.20W in. (14.5L x 5.1W mm)</small>				
<b>230DS</b>		EA, ED, WA, WK, EP, SA, SK, SD, WD	120, 350	0.23 5.84
 actual size <small>General-purpose gage with very narrow geometry.</small> <small>Matrix size: 0.50L x 0.12W in. (12.7L x 3.0W mm)</small>				
<b>250AF</b>		EA, ED, WA, WK, EP, SA, SK, SD, WD	120, 350	0.25 6.35
 actual size <small>General-purpose gage with high-dissipation grid.</small> <small>Matrix size: 0.57L x 0.36W in. (14.5L x 9.1W mm)</small>				
<b>250BB</b>		EA, ED, EP	120, 350	0.25 6.35
 actual size <small>General-purpose gage with large solder tabs.</small> <small>Matrix size: 0.64L x 0.21W in. (16.3L x 6.9W mm)</small>				
<b>250BK</b>		EA, WA, WK, SA, SK	1000, 3000	0.25 6.35
 actual size <small>High-resistance gage with good power dissipation capability for high output applications or use on plastics.</small> <small>Matrix size: 0.58L x 0.27W in. (14.7L x 6.9W mm)</small>				

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See [www.vishay.com/strain-gages](http://www.vishay.com/strain-gages) for complete specifications.

## Other Linear Patterns

**MEME** Micro-Measurements



### General Purpose Strain Gages

GAGE PATTERN	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	GAGE LENGTH	
			inches	millimeters
<b>250BM</b>		EA, ED, WA, WK, EP, SA, <b>SK, SD, WD</b>	500, 1500	0.25 6.35
General-purpose gage with high-resistance grid. Matrix size: 0.58L x 0.27W in. (14.7L x 6.9W mm)				
<b>250BP</b>		SK, WK, ED, SD, WD	120	0.25 3.18
A general-purpose gage used primarily to obtain 120-ohm grid resistance in SK and WK Series. Matrix size: 0.53L x 0.22W in. (13.5L x 5.6W mm)				
<b>250MQ</b>		EA, ED, EK, WA, WK, SA, <b>SK, SD, WD</b>	350, 1000	0.25 6.35
Dual pattern for back-to-back bending applications. Longitudinal grid centerlines are spaced 0.185 in (4.70 mm) apart. EK-Series gages are supplied with duplex copper pads (DP) when optional feature W or SE is not specified. Matrix size: 0.47L x 0.40W in. (11.9L x 10.2W mm)				
<b>350DD</b>		EA, ED, WA, WK, EP, SA, <b>SK, SD, WD</b>	350, 1000	0.35 8.89
General-purpose gage with narrow pattern geometry and tab at each end of grid. Matrix size: 0.61L x 0.18W in. (15.5L x 4.6W mm)				
<b>375BG</b>		EA, ED, WA, WK, EP, SA, <b>SK, SD, WD</b>	120, 350	0.375 9.53
General-purpose gage. Matrix size: 0.71L x 0.29W in. (18.0L x 7.4W mm)				
<b>500BL</b>		EA, ED, WA, WK, EP, SA, <b>SK, SD, WD</b>	350, 1000	0.5 12.7
Widely used general-purpose gage with compact geometry. Matrix size: 0.87L x 0.27W in. (22.1L x 6.9W mm)				

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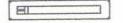
See [www.vishay.com/strain-gages](http://www.vishay.com/strain-gages) for complete specifications.



## Other Linear Patterns

Micro-Measurements

### General Purpose Strain Gages

GAGE PATTERN	GAGE SERIES See Note 1	GAGE RESISTANCE (ohms)	GAGE LENGTH	
			inches	millimeters
<b>500GB</b>   actual size	EA, ED, WA, WK, EP, SA, SK, SD, WD	120, 350	0.5	12.7
General-purpose gage with very narrow geometry. See also 500GC pattern. Matrix size: 0.75L x 0.15W in. (19.1L x 3.8W mm)				
<b>500GC</b>   actual size	EA, ED, WA, WK, EP, SA, SK, SD, WD	350, 1000	0.5	12.7
General-purpose gage with very narrow geometry. Matrix size: 0.78L x 0.15W in. (19.8L x 3.8W mm)				
<b>40CBY</b>   30% of actual size	N2A, EA, WA, WK, EP, SA, SK	120, 350	4	101.6
For use on concrete and for strain integration on large specimens. Matrix size: 4.49L x 0.33W in. (114.0L x 8.4W mm)				

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See [www.vishay.com/strain-gages](http://www.vishay.com/strain-gages) for complete specifications.



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Vishay Precision Group

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## Temperature Sensors and LST Networks

**MEME** Micro-Measurements



### Special Use Sensors - Temperature

#### TG TEMPERATURE SENSORS

Resistance thermometry is a widely employed method of measuring temperature, and is based on using a material whose resistivity changes as a function of temperature. Resistance Temperature Detectors (RTD's) have fast response time, provide absolute temperature measurement (since no reference junctions are involved), and are very accurate. Their measurement circuits are relatively simple, and the sensors, when properly installed, are very stable over years of use.

Micro-Measurements resistance temperature sensors are constructed much like wide-temperature-range strain gages. The standard sensors utilize nickel or nickel/manganin grids, although special-purpose gages are also available in Balco® alloy or copper foil grids. These temperature sensors are bonded to structures using standard strain gage installation techniques, and can measure surface temperatures from  $-452^{\circ}$  to approximately  $+500^{\circ}\text{F}$  [ $-269^{\circ}$  to  $+260^{\circ}\text{C}$ ]. Because of their extremely low thermal mass and the large bonded area, the sensors follow temperature changes in the structural mounting surface with negligible time lag.

Balco is a trademark of the W.B. Driver Company

TG Temperature Sensors are normally selected for measurements from  $-320$  to  $+500^{\circ}\text{F}$  [ $-195^{\circ}$  to  $+260^{\circ}\text{C}$ ]. The sensing grid utilizes a high purity nickel. Three basic constructions are offered:

ETG Sensors have a polyimide carrier for flexibility. It is available as an encapsulated gage with exposed solder tabs (Option E), or with integral printed-circuit terminals (Option W).

The WTG Sensor incorporates integral leadwires and a high-temperature epoxy-phenolic matrix (reinforced with glass fiber) which fully encapsulates the grid.

The WWT-TG Sensor is a slightly larger version of the WTG, but preattached to a 0.005-in [0.13-mm] thick stainless steel shim. This gage can be welded or bonded to a structure.

The resistance at  $+75^{\circ}\text{F}$  [ $+23.9^{\circ}\text{C}$ ] is  $50\Omega \pm 0.3\%$  for the ETG and WTG Sensors; and  $50\Omega \pm 0.4\%$  for the WWT-TG Sensors.

Maximum operating temperature for ETG Sensors with Option E is  $+450^{\circ}\text{F}$  [ $+230^{\circ}\text{C}$ ], and  $+350^{\circ}\text{F}$  [ $+175^{\circ}\text{C}$ ] for Option W. All other types are  $+500^{\circ}\text{F}$  [ $+260^{\circ}\text{C}$ ].

#### TEMPERATURE SENSOR SELECTION

GAGE PATTERN AND DESIGNATION Approximate Size Shown See Note 1	DIMENSIONS					inches millimeters		
	GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	MATRIX		Length	Width
					Length	Width		
ETG-50A/Option E ETG-50A/Option W ETG-50B/Option E ETG-50B/Option W	0.060 1.52 0.125 3.18	0.148 3.76 0.235 5.97	0.100 2.54 0.125 3.18	0.100 2.54 0.125 3.18	0.28	0.20	50A/E	Opt W Feature
					7.0	4.8		
					0.33	0.19		
					8.3	4.7		
WTG-50A WTG-50A/Option W WTG-50B WTG-50B/Option W	0.060 1.52 0.125 3.18	0.148 3.76 0.235 5.97	0.100 2.54 0.125 3.18	0.100 2.54 0.125 3.18	0.28	0.20	50B	Opt W Feature
					7.0	4.8		
					0.33	0.19		
					8.3	4.7		
<b>WWT-TG-W200B-050</b> For weldable temperature sensor, see appropriate datasheet.	0.20 5.08	(shim length) 0.71 18.03	0.200 5.08	(shim width) 0.43 10.92	0.52	0.26		
					13.1	6.6		

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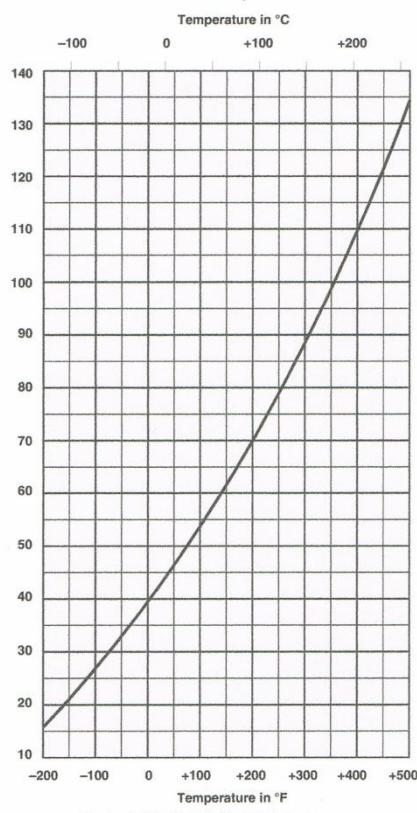
In addition to the standard line of temperature sensors described above, Micro-Measurements can furnish almost any type of sensor pattern desired, in a wide range of resistances. Contact our Applications Engineering Department for details.



## Temperature Sensors and LST Networks

Micro-Measurements

### Special Use Sensors - Temperature



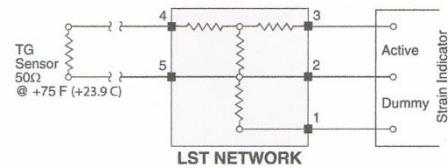
Typical data for 50 Ω nickel sensor.

### TG LST MATCHING NETWORKS

The temperature coefficient of resistance of nickel sensors is very high but nonlinear as indicated in the graph. The sensor resistance can be measured directly and converted to temperature with the charts supplied in Tech Note TN-506, but since TG Sensors are commonly used along with strain gages, special matching networks have been developed to use with strain gage instrumentation.

These LST Matching Networks are small passive devices encapsulated in a molded epoxy case. They are connected between TG Temperature Sensors and the strain gage readout instrumentation to perform the following three functions:

1. Linearize the gage resistance versus temperature.
2. Attenuate the resistance change slope to the equivalent of 10 or 100 microstrain per degree F or C for a gage factor setting of 2.000 on the strain indicator.
3. Present a balanced 350-ohm half-bridge circuit to the strain indicator at the reference temperature of 0°F (Fahrenheit networks) or 0°C (Celsius networks).



In order to optimize performance, separate network designs are available for cryogenic and normal temperature ranges. Environmental temperature range of LST networks is -65° to +250°F [-55° to +125°C]. Standard strain gage instrumentation, such as the Micro-Measurements Model P3, is ideal for use with these sensors, eliminating the need to purchase separate readout devices.

LOW TEMPERATURE RANGE		
NETWORK DESIGNATION	OUTPUT SLOPE	SENSOR TEMPERATURE RANGE
LST-10F-350C	10 microstrain/°F	-320° to +100°F
LST-10C-350C	10 microstrain/°C	-200° to +25°C
LST-100F-350C	100 microstrain/°F	-320° to +100°F
LST-100C-350C	100 microstrain/°C	-200° to +25°C

NORMAL TEMPERATURE RANGE		
NETWORK DESIGNATION	OUTPUT SLOPE	SENSOR TEMPERATURE RANGE
LST-10F-350D	10 microstrain/°F	-200° to +500°F
LST-10C-350D	10 microstrain/°C	-150° to +260°C
LST-100F-350D	100 microstrain/°F	-200° to +500°F
LST-100C-350D	100 microstrain/°C	-150° to +260°C

## Temperature Sensors and LST Networks

**MEME** Micro-Measurements



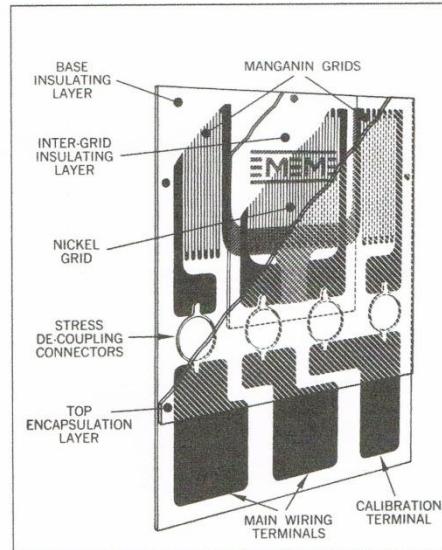
### Special Use Sensors - Temperature

#### CLTS-2B TEMPERATURE SENSORS

The Cryogenic Linear Temperature Sensor (CLTS) is recommended for best accuracy over the temperature range of  $-452^{\circ}\text{F}$  to  $+100^{\circ}\text{F}$  [ $-269^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$ ]. The CLTS-2B is a small surface thermometer gage consisting of two thin foil sensing grids laminated into a glass-fiber-reinforced epoxy-phenolic matrix, and electrically wired in series. The two alloys are special grades of nickel and manganin that are processed for equal and opposite nonlinearities in resistance versus temperature characteristics. The CLTS-2B is fabricated with integral printed-circuit terminals to provide strong, convenient attachment points for the leadwires. Gage construction is illustrated at right.

Because of its low thermal mass and thin construction, the CLTS-2B responds quickly and accurately to temperature changes in the surface to which it is bonded. Special design features protect the sensor from damage due to thermal shock, even during plunges from room temperature directly into liquefied gases, including LHe at  $-452^{\circ}\text{F}$  [ $-269^{\circ}\text{C}$ ].

Avoid prolonged exposure of the CLTS-2B to temperatures above  $+150^{\circ}\text{F}$  [ $+65^{\circ}\text{C}$ ] as this may adversely affect characteristics of the manganin material. The maximum recommended curing temperature of the bonding adhesive is two hours at  $+200^{\circ}\text{F}$  [ $+95^{\circ}\text{C}$ ].



#### CLTS-2B SENSITIVITY

The nominal resistance of the CLTS-2B is 290.0 ohms  $\pm 0.5\%$  at  $+75^{\circ}\text{F}$  [ $+23.9^{\circ}\text{C}$ ]. The resistance decreases linearly with temperature, reaching a nominal value of 220.0 ohms at  $-452^{\circ}\text{F}$  [ $-269^{\circ}\text{C}$ ]. This represents a change of 70 ohms for  $527^{\circ}\text{F}$ , or a slope of 0.1328 ohms per degree F; the

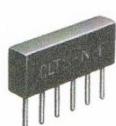
corresponding slope on the Celsius scale is 0.2391 ohms per degree C. With proper instrumentation a resolution of  $0.01^{\circ}$  can be easily achieved. Data readout can be accomplished by directly monitoring resistance change with an appropriate resistance measuring instrument.

GAGE PATTERN AND DESIGNATION Actual size shown	DIMENSIONS							
	GAGE LENGTH	OVERALL LENGTH	GRID WIDTH	OVERALL WIDTH	MATRIX		inches	millimeters
					Length	Width		
CLTS-2B	0.130	0.205	0.280	0.280	0.43	0.31		
	3.30	5.21	7.11	7.11	10.9	7.9		

#### CLTS MATCHING NETWORKS

When used in conjunction with bonded strain gages, it is often most convenient to modify the CLTS output with a simple, passive resistance network that can be used with strain gage instrumentation as described with the TG Sensors. The sensitivity can be adjusted to 10 micro-strain per degree C (CLTS-N-C); with a

resolution of  $0.1^{\circ}$  when used with most strain indicators. This type of network also provides a high degree of leadwire compensation. Environmental temperature limits for CLTS Networks are  $-65^{\circ}$  to  $+250^{\circ}\text{F}$  [ $-55^{\circ}$  to  $+125^{\circ}\text{C}$ ]





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## Strain Gage SG-01

Fibre Bragg  
Gratings  
reinvented

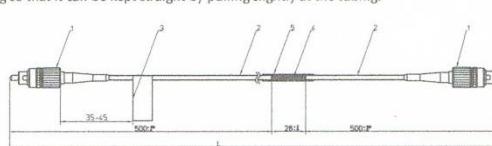
*Draw Tower Gratings (DTG®) are produced during the drawing process of the fibre itself, before the primary coating is applied. This is a cost effective production process for high quality Fibre Bragg Gratings. This offers unique characteristics such as extremely high breaking strength, insensitivity to bending, spliceless array configurations and uniform coating coverage. FBG parameters and coating material can be selected based on customer needs.*

**Description**

The Strain Gage SG-01 is the fibre optic equivalent of an electrical strain gage. The Strain Gage SG-01 can be mounted directly on the surface of a structure by means of an adhesive. In this way, the fibre sensor makes direct contact with the surface and therefore accurately measures the strain at the surface. Supply of the strain gages, installation tools and instruction manual can be found in the Strain Gage Installation Kit (SGK-01).

The sensors are produced using a draw tower production process which gives the fibres a very high strength which in turns ensures that the sensors have excellent fatigue behaviour. Also the fibre coating is specifically developed for strain sensing applications and so it need not be removed prior to installation of the sensors.

The Strain Gage SG-01 has a connector at both ends (1) in order to make series configurations possible. In its standard configuration, the sensor has protective tubing before (2) and after (2) the sensor area (4) and it has a free fibre length of 28 mm centred around this area (4). A rubber sleeve (5) is placed over the exposed fibre area for protective purposes and must be removed before installation. The fibre is fixed to the tubing so that it can be kept straight by pulling slightly at the tubing.



**Features**

- High strength sensors with excellent fatigue resistance
- Direct mounting of the sensors to the surface to be monitored

#### Applications

The fibre optic Strain Gage SG-01 can be used to measure strain changes on the surface of material (due to tension, compression and bending) of metallic or composite structures. In combination with high speed interrogators from FBGS, vibration analysis can be performed also.

#### Standard Specification

Parameter	Value
Strain resolution <sup>1</sup>	0.85 $\mu\epsilon$
Strain precision <sup>1</sup>	1.7 $\mu\epsilon$
Strain range	1 % (long term) 5 % (short term)
Operating temperature range <sup>2</sup>	-50 °C to +130 °C
Active gage length <sup>3</sup>	8 mm
Overall gage length <sup>4</sup>	28 mm
Coating material	ORMOCER®
Fibre diameter (coated)	195 $\mu\text{m}$
Tubing material	PVDF
Tubing diameter	0.9 mm
Tubing length (left and right)	45 cm
Connector type	FC/APC

<sup>1</sup> Using a depolarized measurement device with a 1 pm wavelength resolution and precision.

<sup>2</sup> Of the free fibre. The temperature range for the fixed fibre also depends on the adhesive used and on the bonding conditions. The temperature range is only specified for the sensor, not for the connector. Splicing is recommended for extreme temperatures.

<sup>3</sup> The length of the sensing part of the fibre. The strain is averaged over this length.

<sup>4</sup> The total length of fibre that is fixed to the structure by means of an adhesive.

#### Ordering information

A standard package includes 5 x SG-01 sensors. The wavelength of these gages will be identical and can be chosen according to the table below. A mix of selectable wavelengths can be obtained as well for the strain gauge kit (SGK-01). The wavelengths should be specified as indicated below.

Example:

S	G	0	1	-	X	X
---	---	---	---	---	---	---

↓      ↓

		Nominal wavelength	Nominal wavelength
Standard		Strain Gage Kit refills	
S1	1510 nm	1A	1527.0 nm
S2	1515 nm	2A	1534.0 nm
S3	1520 nm	3A	1541.0 nm
S4	1525 nm	4A	1548.0 nm
S5	1530 nm	5A	1555.0 nm
S6	1535 nm	1B	1530.5 nm
S7	1540 nm	2B	1537.5 nm
S8	1545 nm	3B	1544.5 nm
S9	1550 nm	4B	1551.5 nm
S10	1555 nm	5B	1558.5 nm
S11	1560 nm	MA	Mix: 1A, 2A, ..., 5A
S12	1565 nm	MB	Mix: 1B, 2B, ..., 5B
S13	1570 nm	Custom : Contact sales department	
S14	1575 nm		
S15	1580 nm		
S16	1585 nm		

This product has been developed in the framework of a joint collaboration between the Belgian Science Policy and the Federal Public Service of Economy, SMEs, Independent Professions and Energy of Belgium.

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## A.2.- Sistemes d'adquisició de dades



The image shows a promotional page for the FBG-scan 708D / 808D measurement device. At the top right is the FBGS logo with the tagline "DRAW TOWER GRATINGS". Below the logo is a dark blue banner with the text "Measurement Device" and "FBG-scan 708D / 808D". To the left is a vertical sidebar with the text "Fibre Bragg Gratings reinvented" and a detailed description of the product's production process and unique characteristics. On the right is a photograph of the device, which is a long, thin metal housing with six green circular ports labeled 1 through 6. A yellow arrow points to the rightmost port. Below the photograph are three sections: "Description", "Features", and "Laser Safety Information".

**Description**

The FBG-Scan 708D / 808D is an industrialised, high precision measurement device for dynamic measurements of optical fibre sensors in real field applications. The system can monitor 8 separate optical lines. The device is controlled by an internal PC and samples all sensors at 250 Hz. A dedicated interface protocol communicates the measurement data over TCP/IP to a data server.

**Features**

- Fibre optic measurement device for up to 8 optical lines
- Dynamic measurements up to 250 Hz
- Embedded processing board with monitoring software
- Data transmission over Ethernet (TCP/IP)
- High dynamic range
- Excellent wavelength precision

**Laser Safety Information**

This device is a Class 1 laser product according to IEC 60825-1 (2001).

CLASS 1 LASER PRODUCT



Standard Specification		
Parameter	FBG-Scan	
	708D	808D
<b>Optical</b>		
Wavelength range	1525-1565 nm	1510-1590 nm
Minimum wavelength spacing <sup>1</sup>	0.4 nm	0.8 nm
Number of channels	8 (individual channels)	
Wavelength precision	±1 pm	
Absolute wavelength accuracy (EOI) <sup>2</sup>	± 30 pm	± 40 pm
Dynamic range	30 dB with user selectable control	
Scan and report rate	250Hz	
Optical connector	FC/APC	
Laser class (IEC 60825-1)	1	
<b>Electrical</b>		
Maximum power consumption	40 W	
Power supply	230 VAC	
<b>Environmental</b>		
Operating temperature	0°C to 50°C	
Operating humidity	0% to 80%, non-condensing	
Storage temperature	-10°C to 60°C	
Storage humidity	0% to 95%, non-condensing	
<b>Mechanical</b>		
Dimensions (H x W x D)	41 mm x 424 mm x 369 mm (19 inch compatible)	
<b>Communication</b>		
Communication port	Ethernet	

Ordering information												
Example:												Wavelength range
F B G - S C A N - X 0 8 D												7 1525-1565 nm
												8 1510-1590 nm

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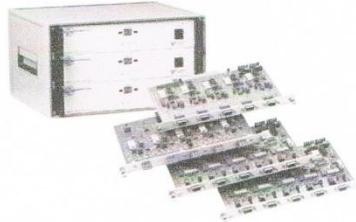
## System 5000

Micro-Measurements

### StrainSmart® Data Acquisition System

#### FEATURES

- From 5 to 1200 input channels—can be configured as needed at any time
- Inputs accepted from strain gages and strain-gage-based transducers (Model 5110A), thermocouples (Model 5120A), sensors with high-level voltage output (Model 5130B), and LVDTs (Model 5140A)
- Built-in bridge completion for 120-, 350-, and 1000-ohm strain gages
- Scanning and recording intervals as short as 0.02 seconds for up to 1200 inputs
- Stable, accurate, low-noise signal conditioning
- Available with PCI and PCIe hardware Interface



#### DESCRIPTION

System 5000's Model 5100B Scanners acquire test data within 1 millisecond from up to 1200 channels at scan intervals as short as 0.02 seconds. This translates into more accurate test results, and the ability to capture data under static loading conditions immediately before failure.

Sensor connections are quickly made to the cards at the rear of each scanner in System 5000. Strain gage cards include built-in bridge completion for quarter and half bridges, and a constant voltage power supply for 0, 0.5, 1, 2, 5, and 10 VDC bridge excitation.

System 5000's instrumentation hardware is designed to incorporate all the features required for precision strain measurement under static loading conditions, while maintaining flexibility and ease of use. A system can be configured with as few as 5, and as many as 1200, sensors. Since each Model 5100B Scanner can function independently, your System 5000 components can easily be configured with StrainSmart software for each test requirement.

#### MODEL 5100B SCANNER SPECIFICATIONS



The Model 5100B Scanner is sized for standard 19-in (483-mm) instrumentation racks. Cabinets are available for various system configurations for bench-top or field use.

Since each Model 5100B Scanner can function independently, your System 5000 components can be easily configured for each test requirement. A 100-channel system, for example, can be used as five independent 20-channel systems simply by purchasing additional interface hardware installations.

#### INPUTS

Accepts up to four cards (five channels per card and up to 20 channels per scanner).

#### A/D CONVERTER

16-bit (15-bit plus sign) successive approximation converter. Usable resolution is typically 15 bits. 40  $\mu$ s total conversion time per reading.

#### SCAN RATE

1 ms per scan. Fifty complete scans per second typical usage. Concurrent scanning for all scanners.

Input channels in each single scanner are scanned sequentially at 0.04-ms intervals and stored in random access memory within a 1-ms window.

#### DIGITAL OUTPUT

NO and NC relay contacts (500 mA at 30 VDC into a resistive load)

#### OPERATIONAL ENVIRONMENT

##### Temperature

-10° to +50°C

##### Humidity

Up to 90% RH, non-condensing

#### SIZE

3.5 H x 19 W x 16 D in (89 x 483 x 381 mm)

#### WEIGHT

16 lb (7.25 kg)

#### POWER

115 or 230 VAC user-selectable  
±10% of setting; 50/60 Hz; 140W max

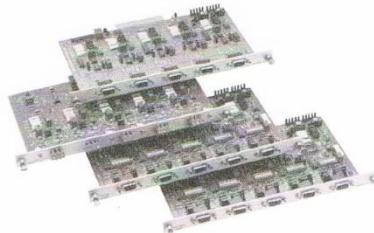
## System 5000

**MEME** Micro-Measurements



### StrainSmart® Data Acquisition System

#### SENSOR CARD SPECIFICATIONS



Strain gages, strain-gage-based transducers, thermocouples, LVDTs, potentiometers and other transducers can be intermixed in multiples of 5 by choosing the appropriate sensor card.

#### MODEL 5110A STRAIN GAGE CARD

##### CHANNELS

Five per card

##### INPUTS

###### Strain Gages

120Ω, 350Ω, 1000Ω quarter bridges; 60Ω to 5000Ω half and full bridges

Jumper-selectable completion resistors (0.02% ±3 ppm/°C typ)

###### Measurement Range

Normal range mode: ±16,380 με

High range mode: ±163,800 με

Low range mode: ±1638 με

###### Resolution

Normal range mode: 1 με

High range mode: 10 με

Low range mode: 0.1 με

###### Strain Gage Based Transducers

60Ω to 5000Ω impedance

###### Measurement Range

Normal range mode: ±8 mV/V

High range mode: ±80 mV/V

Low range mode: ±0.8 mV/V

###### Resolution

Normal range mode: 0.5 μV/V

High range mode: 5.0 μV/V

Low range mode: 0.05 μV/V

###### Input Impedance

220 MΩ each input

##### Input Protection

±40V

##### Source Current

±25 nA max.

##### Input Connector

Nine-pin D-sub style

#### AMPLIFIER

##### Zero Temperature Stability

±1.2 μV/°C RTI, ±100 μV/°C RTO, after 30-minute warm-up

##### Gain Accuracy and Stability

±0.1% at +23°C; ±100 ppm/°C

##### Common-Mode Voltage

±10V

##### Common-Mode Rejection (DC to 5 Hz)

100 dB typical

##### System Noise (Normal Mode Operation)

±2 μe typical (±4 ADC counts)

##### System Coarse Balance Range

±100% of measurement range (typically ±16,383 μe)

#### CALIBRATION

Two shunt calibration points are available on each channel

Switch-selectable

Calibration switches, A and B, are software selectable

#### EXCITATION

0.0, 0.5, 1.0, 2.0, 5.0, and 10.0 VDC

Software-programmable

##### Accuracy

±5 mV typical

##### Current

250 mA max. (50 mA per channel)

Over-current protected

##### Load Regulation

<0.05% of full scale for a load variation of 10% to 100% of full load

##### Temperature Stability

Better than ±0.005%/°C

#### FILTER

##### Type

Four-pole Butterworth

##### Cutoff Frequency (-3 dB)

5 Hz



## System 5000

Micro-Measurements

### StrainSmart® Data Acquisition System

#### MODEL 5120A THERMOCOUPLE CARD

##### CHANNELS

Five per card

##### INPUTS

Thermocouple types J, K, T, E, R, S, and B  
Built-in electronic cold-junction compensation  
Software-selectable

##### Open sensor detection:

Input Impedance: 22 MΩ each input  
Input Protection: ±40V  
Source Current: ±0.5 nA typical; ±5 nA max

##### Input Connector

Removable three-position screw terminal

##### AMPLIFIER

Zero Temperature Stability  
±1.2 µV/°C RTI, ±100 µV/°C RTO, after 30-minute warm-up

##### Gain Accuracy and Stability

0.1% ±100 ppm/°C

##### Common-Mode Rejection (DC to 5 Hz)

100 dB typical

##### Common-Mode Voltage

±10V

##### System Noise (Normal Mode Operation)

±10 µV typical (±4 ADC counts)

##### MEASUREMENT RANGE

±81.9 mV

##### RESOLUTION

2.5 µV

##### FILTER

###### Type

Four-pole Butterworth

###### Cutoff Frequency (-3 dB)

5 Hz

#### MODEL 5130B HIGH-LEVEL INPUT CARD

##### CHANNELS

Five per card

##### INPUTS

DC volts (differential)

##### Input Impedance

22 MΩ each input

##### Input Protection

±40V

##### Source Current

±0.5 nA typical; ±5 nA max

##### Input Connector

Nine-pin D-sub style

##### AMPLIFIER

###### Zero Temperature Stability

±1.2 µV/°C RTI, ±100 µV/°C RTO, after 30-minute warm-up

###### Gain Accuracy and Stability

0.1% ±100 ppm/°C

###### Common-Mode Rejection (DC to 5 Hz)

100 dB typical

###### Common-Mode Voltage

±10V

###### System Noise (Normal Mode Operation)

± 4 ADC counts typical (0 to 15V excitation)

±10 ADC counts typical (20 to 30V excitation)

##### MEASUREMENT RANGES

±1, ±2, ±5, ±10 VDC

##### RESOLUTION

30.5, 61, 152.5, 305 µV

##### EXCITATION

0, 0.5, 1.0, 2.0, 5.0, 10.0, 15.0, 20.0, 25.0 and 30.0 VDC

##### Accuracy

±10 mV typical

##### Current

250 mA max (50 mA per channel) at 1 to 15V

200 mA max (40 mA per channel) at 20V

150 mA max (30 mA per channel) at 25 to 30V

Over-current protected

Max current limit selected by jumpers

##### Load Regulation

<0.05% of full scale for a load variation of 10% to 100% of full load

##### Temperature Stability

Better than ±0.005%/°C

##### FILTER

###### Type

Four-pole Butterworth

###### Cutoff Frequency (-3 dB)

5 Hz

Document No.: 11269

Revision: 15-May-2011

For technical questions, contact

[micro-measurements@vishaypg.com](mailto:micro-measurements@vishaypg.com)

[www.micro-measurements.com](http://www.micro-measurements.com)

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## System 5000

**MEME** Micro-Measurements



### StrainSmart® Data Acquisition System

#### MODEL 5140A LVDT INPUT CARD

##### CHANNELS

Five per card

##### INPUTS

Three- to six-wire transducers

##### Input Impedance

10 MΩ each input

##### Input Protection

±40V

##### Source Current

±0.5 nA typical; ±5 nA max

##### Input Connector

Nine-pin D-sub style

##### AMPLIFIER

###### Zero Temperature Stability

±1.2 µV/°C RTI, ±100 µV/°C RTO, after 30-minute warm-up

###### Gain Accuracy

0.25% typical

###### Common-Mode Rejection (DC to 5 Hz)

100 dB typical

###### Common-Mode Voltage

±10V

###### System Noise (Normal Mode Operation)

±4 ADC counts typical

###### Measurement Ranges

±0.5, ±1, ±2.5, ±5 VRMS

##### RESOLUTION

15.25, 30.5, 76.2, 152.5 µVRMS

##### CALIBRATION

Excitation sample

##### EXCITATION

3.0 VRMS, 5000 Hz or 2500 Hz sine wave

Software-selectable

###### Accuracy

±5 mVRMS typical

###### Current

±250 mA max (±50 mA per channel)

Over-current protected

###### Load Regulation

<0.1% of full scale for a load variation of 10% to 100% of full load

###### Temperature Stability

Better than ±0.05%/°C

##### FILTER

###### Type

Four-pole Butterworth

###### Cutoff Frequency (-3 dB)

5 Hz

##### CONFIGURATIONS

StrainSmart Data Systems can be configured in a variety of ways to meet the specific requirements of each user. Each system consists of (1) software, (2) instrumentation hardware, and (3) personal computer.

##### SOFTWARE

It is strongly recommended that StrainSmart Software be installed on a Windows-based personal computer for data acquisition, reduction, display, and storage.

*While the hardware for StrainSmart Data Systems may be used with third-party data acquisition software, total system operation becomes the user's responsibility when third-party software is used.*

##### INSTRUMENTATION HARDWARE

In addition to a one-time purchase of StrainSmart Software, the initial purchase for each system would normally include one of the following:

###### System 5000 with PCI or PCIe Interface:

Model 5101 PCI or PCIe Interface Card; one or more Model 5100 Scanners; and one or more Model 5110, 5120, 5130, or 5140 Input Cards

##### PERSONAL COMPUTER REQUIREMENTS

In addition to StrainSmart Software and Hardware purchased from Micro-Measurements, the system requires access to a properly configured personal computer. The hardware requirements for StrainSmart are:

- Fast Intel Core-2 Duo or better
- 4 GB of memory or better
- 20 GB of available free space or better
- XGA (1024 x 768) or better

##### STRAINSMART SOFTWARE

StrainSmart Software is designed to function with all System 5000, 6000, and 7000 hardware. It contains everything needed to acquire, reduce, display, and store measurement data, including:

- StrainSmart Main Operating Program
- Offline Data Presentation Program
- Interactive Help System

All components are supplied on CD-ROM along with a utility for installing them.

An unlimited number of installations can be made within your facility with the one-time purchase of a single copy of StrainSmart.



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## Annex B.- Lectures obtingudes durant l'assaig.

Hora	Fibra òptica-1 (nm)	Fibra òptica-2 (nm)	Thermal gage-1 (μs)	Thermal gage-2 (μs)	Marc (μs)	Strain gage-1 (μs)
21:02	1555,393	1548,503				
21:03	1555,392	1548,503				
21:04	1555,392	1548,502				
21:05	1555,391	1548,501				
21:06	1555,389	1548,501				
21:07	1555,341	1548,5	-14	-5	0	1
21:08	1555,585	1548,67	-16	-8	2	18
21:09	1555,699	1548,75	-31	-18	1	177
21:10	1555,707	1548,748	-45	-28	2	304,5
21:11	1555,706	1548,747	-47	-33	5	315
21:12	1555,705	1548,746	-51	-38	8	314
21:13	1555,704	1548,745	-59	-42	10	313
21:14	1555,704	1548,745	-63	-47	13	313
21:15	1555,703	1548,744	-67	-51	16	312
21:16	1555,703	1548,743	-71	-55	18	312
21:17	1555,702	1548,742	-72	-59	22	311
21:18	1555,702	1548,741	-73	-63	25	311
21:19	1555,701	1548,74	-73	-67	29	309
21:20	1555,702	1548,74	-68	-71	33	309
21:21	1555,702	1548,739	-63	-75	36	310
21:22	1555,702	1548,739	-67	-78	39	310
21:23	1555,701	1548,738	-69	-82	42	310
21:24	1555,7	1548,738	-72	-86	45	309
21:25	1555,699	1548,736	-83	-90	46	309
21:26	1555,699	1548,736	-87	-94	49	309
21:27	1555,699	1548,735	-86	-98	53	309
21:28	1555,699	1548,735	-86	-102	55	309
21:29	1555,699	1548,734	-86	-105	58	308
21:30	1555,698	1548,734	-86	-109	62	308
21:31	1555,698	1548,734	-88	-112	64	308
21:32	1555,698	1548,733	-89	-115	67	308
21:33	1555,697	1548,733	-93	-118	70	307
21:34	1555,697	1548,731	-95	-121	72	307
21:35	1555,696	1548,731	-94	-125	75	307
21:36	1555,696	1548,731	-99	-129	78	307
21:37	1555,697	1548,73	-100	-132	81	307
21:38	1555,696	1548,73	-98	-134	84	307
21:39	1555,696	1548,73	-100	-138	87	307
21:40	1555,696	1548,729	-103	-140	90	307
21:41	1555,695	1548,729	-103	-143	92	307

21:42	1555,695	1548,729	-106	-146	95	307
21:43	1555,695	1548,729	-107	-149	98	307
21:44	1555,694	1548,728	-111	-152	100	307
21:45	1555,693	1548,727	-115	-156	103	306
21:46	1555,693	1548,727	-122	-160	105	306
21:47	1555,693	1548,726	-126	-164	108	306
21:48	1555,693	1548,725	-126	-167	111	306
21:49	1555,693	1548,725	-124	-171	114	306
21:50	1555,693	1548,725	-122	-174	118	306
21:51	1555,693	1548,724	-122	-176	121	306
21:52	1555,693	1548,724	-122	-179	125	305
21:53	1555,693	1548,723	-121	-181	128	305
21:54	1555,693	1548,723	-122	-183	131	305
21:55	1555,692	1548,723	-122	-185	134	305
21:56	1555,692	1548,722	-126	-187	137	305
21:57	1555,692	1548,722	-127	-190	140	305
21:58	1555,692	1548,721	-129	-193	142	305
21:59	1555,692	1548,721	-133	-195	145	305
22:00	1555,691	1548,721	-133	-198	148	305
22:01	1555,691	1548,72	-133	-200	151	304
22:02	1555,691	1548,72	-134	-202	155	305
22:03	1555,691	1548,72	-136	-205	157	304
22:04	1555,69	1548,72	-140	-207	160	304
22:05	1555,69	1548,719	-143	-210	162	304
22:06	1555,69	1548,718	-146	-212	165	304
22:07	1555,69	1548,718	-147	-215	167	304
22:08	1555,69	1548,718	-147	-218	170	304
22:09	1555,69	1548,718	-147	-221	173	304
22:10	1555,689	1548,716	-147	-223	175	304
22:11	1555,689	1548,716	-150	-226	178	304
22:12	1555,689	1548,716	-151	-228	181	304
22:13	1555,689	1548,716	-150	-230	184	304
22:14	1555,689	1548,716	-149	-232	187	304
22:15	1555,689	1548,715	-149	-234	189	303
22:16	1555,689	1548,715	-149	-236	192	303
22:17	1555,689	1548,715	-149	-238	194	303
22:18	1555,688	1548,715	-152	-240	195	303
22:19	1555,688	1548,715	-158	-242	197	303
22:20	1555,688	1548,714	-158	-244	199	303
22:21	1555,688	1548,714	-158	-246	201	303
22:22	1555,687	1548,713	-158	-248	202	303
22:23	1555,687	1548,713	-160	-250	204	303
22:24	1555,687	1548,713	-160	-252	206	303
22:25	1555,687	1548,712	-160	-254	207	303
22:26	1555,687	1548,712	-160	-256	209	303
22:27	1555,687	1548,712	-163	-258	210	303

22:28	1555,686	1548,712	-166	-260	211	303
22:29	1555,686	1548,711	-167	-263	212	302
22:30	1555,685	1548,71	-168	-265	213	302
22:31	1555,685	1548,71	-171	-267	214	302
22:32	1555,685	1548,71	-173	-270	214	302
22:33	1555,684	1548,709	-177	-273	215	302
22:34	1555,684	1548,709	-181	-276	215	303
22:35	1555,684	1548,709	-184	-279	216	302
22:36	1555,683	1548,708	-187	-281	217	302
22:37	1555,683	1548,707	-188	-284	218	302
22:38	1555,683	1548,707	-189	-286	220	302
22:39	1555,682	1548,706	-192	-289	220	302
22:40	1555,681	1548,706	-199	-292	220	302
22:41	1555,681	1548,706	-201	-295	221	302
22:42	1555,681	1548,705	-203	-298	222	302
22:43	1555,681	1548,705	-205	-300	223	302
22:44	1555,681	1548,705	-206	-303	224	302
22:45	1555,681	1548,704	-207	-306	226	302
22:46	1555,68	1548,704	-210	-308	227	301
22:47	1555,68	1548,703	-210	-311	228	301
22:48	1555,68	1548,703	-210	-313	229	301
22:49	1555,68	1548,703	-211	-315	230	301
22:50	1555,679	1548,702	-211	-317	232	301
22:51	1555,68	1548,702	-212	-320	233	301
22:52	1555,68	1548,702	-212	-322	235	301
22:53	1555,679	1548,702	-211	-324	236	301
22:54	1555,679	1548,702	-212	-326	237	301
22:55	1555,679	1548,701	-213	-327	238	301
22:56	1555,679	1548,7	-212	-329	239	301
22:57	1555,679	1548,7	-213	-331	240	300
22:58	1555,679	1548,7	-213	-333	241	301
22:59	1555,679	1548,7	-213	-334	243	300
23:00	1555,679	1548,7	-213	-336	245	300
23:01	1555,679	1548,699	-215	-337	246	300
23:02	1555,679	1548,699	-215	-339	247	300
23:03	1555,678	1548,699	-214	-340	249	300
23:04	1555,678	1548,698	-214	-342	251	300
23:05	1555,678	1548,698	-214	-343	252	300
23:06	1555,678	1548,698	-213	-344	254	300
23:07	1555,678	1548,698	-213	-346	255	300
23:08	1555,678	1548,698	-212	-347	256	300
23:09	1555,678	1548,698	-211	-349	257	300
23:10	1555,678	1548,697	-210	-350	258	300
23:11	1555,678	1548,697	-211	-352	258	300
23:12	1555,678	1548,697	-210	-353	258	300
23:13	1555,678	1548,697	-209	-354	258	299

23:14	1555,678	1548,697	-208	-354	258	299
23:15	1555,678	1548,697	-208	-355	258	299
23:16	1555,679	1548,697	-208	-355	259	299
23:17	1555,679	1548,697	-206	-356	259	299
23:18	1555,679	1548,697	-205	-356	260	299
23:19	1555,679	1548,697	-203	-356	261	299
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23:31	1555,679	1548,696	-199	-358	261	299
23:32	1555,679	1548,696	-201	-359	260	299
23:33	1555,679	1548,696	-202	-359	260	299
23:34	1555,679	1548,696	-202	-359	261	299
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23:37	1555,678	1548,696	-203	-360	261	299
23:38	1555,678	1548,695	-204	-361	261	299
23:39	1555,678	1548,695	-203	-361	262	299
23:40	1555,678	1548,695	-203	-361	261	299
23:41	1555,678	1548,695	-204	-362	261	299
23:42	1555,678	1548,695	-205	-362	261	299
23:43	1555,678	1548,695	-208	-363	260	299
23:44	1555,678	1548,695	-208	-363	260	299
23:45	1555,678	1548,695	-209	-363	260	299
23:46	1555,678	1548,695	-209	-364	260	299
23:47	1555,678	1548,695	-209	-364	260	299
23:48	1555,678	1548,695	-209	-364	260	299
23:49	1555,678	1548,695	-209	-364	260	299
23:50	1555,678	1548,695	-208	-364	260	299
23:51	1555,678	1548,695	-207	-365	260	299
23:52	1555,678	1548,695	-209	-365	260	299
23:53	1555,678	1548,695	-211	-365	260	299
23:54	1555,677	1548,694	-211	-365	260	299
23:55	1555,677	1548,694	-211	-366	261	299
23:56	1555,677	1548,694	-210	-366	261	299
23:57	1555,678	1548,695	-210	-366	262	299
23:58	1555,678	1548,695	-209	-366	262	299
23:59	1555,678	1548,695	-208	-366	263	299

0:00	1555,678	1548,695	-209	-366	263	299
0:01	1555,678	1548,695	-209	-366	263	299
0:02	1555,677	1548,694	-209	-366	263	299
0:03	1555,677	1548,694	-209	-366	263	299
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0:16	1555,677	1548,694	-207	-367	260	299
0:17	1555,677	1548,694	-207	-368	260	299
0:18	1555,677	1548,694	-210	-368	260	299
0:19	1555,676	1548,694	-211	-368	260	299
0:20	1555,676	1548,694	-213	-368	260	299
0:21	1555,676	1548,694	-213	-369	262	299
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0:23	1555,676	1548,694	-213	-369	263	299
0:24	1555,676	1548,694	-214	-369	264	299
0:25	1555,676	1548,694	-215	-370	264	299
0:26	1555,676	1548,694	-214	-370	265	299
0:27	1555,676	1548,694	-214	-370	266	299
0:28	1555,676	1548,694	-215	-370	266	299
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0:31	1555,675	1548,693	-214	-371	266	299
0:32	1555,675	1548,693	-215	-371	266	299
0:33	1555,675	1548,693	-217	-371	266	299
0:34	1555,676	1548,693	-218	-371	266	299
0:35	1555,676	1548,693	-216	-372	267	299
0:36	1555,676	1548,693	-215	-372	267	299
0:37	1555,676	1548,693	-215	-372	267	299
0:38	1555,676	1548,693	-215	-372	268	299
0:39	1555,676	1548,693	-214	-372	268	299
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0:41	1555,676	1548,693	-215	-372	267	299
0:42	1555,676	1548,693	-214	-372	267	299
0:43	1555,676	1548,692	-215	-372	267	299
0:44	1555,675	1548,692	-215	-373	266	299
0:45	1555,675	1548,692	-215	-372	266	299

0:46	1555,675	1548,692	-216	-373	265	299
0:47	1555,675	1548,692	-217	-373	265	299
0:48	1555,674	1548,692	-220	-373	264	299
0:49	1555,673	1548,692	-228	-374	262	299
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0:55	1555,672	1548,691	-257	-382	248	299
0:56	1555,671	1548,691	-258	-384	247	299
0:57	1555,671	1548,691	-260	-385	246	299
0:58	1555,671	1548,69	-263	-386	243	299
0:59	1555,67	1548,69	-265	-387	242	300
1:00	1555,67	1548,689	-268	-388	239	299
1:01	1555,67	1548,689	-270	-390	239	299
1:02	1555,669	1548,689	-273	-391	238	299
1:03	1555,669	1548,689	-276	-392	237	299
1:04	1555,669	1548,689	-279	-394	237	299
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1:06	1555,669	1548,689	-281	-396	237	299
1:07	1555,668	1548,688	-283	-397	237	299
1:08	1555,668	1548,688	-285	-398	237	299
1:09	1555,668	1548,688	-286	-400	236	299
1:10	1555,667	1548,687	-288	-401	236	299
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1:15	1555,667	1548,686	-292	-406	234	299
1:16	1555,667	1548,687	-290	-407	235	299
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1:18	1555,667	1548,686	-286	-409	235	299
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1:25	1555,667	1548,686	-275	-410	240	298
1:26	1555,666	1548,686	-274	-410	241	299
1:27	1555,665	1548,685	-276	-411	239	298
1:28	1555,664	1548,685	-288	-412	236	299
1:29	1555,664	1548,685	-296	-413	235	299
1:30	1555,664	1548,684	-298	-415	234	299
1:31	1555,663	1548,684	-301	-417	233	299

1:32	1555,662	1548,683	-307	-418	231	299
1:33	1555,662	1548,684	-318	-421	229	299
1:34	1555,662	1548,683	-323	-423	227	299
1:35	1555,661	1548,683	-328	-425	226	299
1:36	1555,66	1548,682	-334	-427	224	299
1:37	1555,659	1548,681	-341	-429	222	299
1:38	1555,659	1548,681	-349	-432	221	299
1:39	1555,659	1548,681	-352	-434	220	299
1:40	1555,659	1548,68	-353	-436	219	299
1:41	1555,658	1548,68	-355	-439	219	299
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1:45	1555,657	1548,678	-363	-448	214	299
1:46	1555,656	1548,678	-364	-449	214	299
1:47	1555,656	1548,678	-366	-451	213	299
1:48	1555,657	1548,678	-366	-453	213	299
1:49	1555,656	1548,677	-364	-455	214	299
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1:51	1555,656	1548,677	-360	-457	216	298
1:52	1555,656	1548,677	-359	-459	218	298
1:53	1555,656	1548,677	-361	-460	216	298
1:54	1555,656	1548,677	-361	-461	215	298
1:55	1555,656	1548,677	-362	-462	214	298
1:56	1555,656	1548,676	-363	-464	215	298
1:57	1555,656	1548,676	-362	-465	216	298
1:58	1555,656	1548,676	-363	-466	215	298
1:59	1555,656	1548,676	-361	-467	216	298
2:00	1555,656	1548,676	-360	-468	217	298
2:01	1555,656	1548,676	-361	-470	216	298
2:02	1555,656	1548,676	-359	-471	217	298
2:03	1555,656	1548,675	-358	-472	218	298
2:04	1555,656	1548,675	-357	-473	219	298
2:05	1555,656	1548,675	-355	-473	221	298
2:06	1555,656	1548,675	-352	-474	223	298
2:07	1555,656	1548,675	-350	-475	225	298
2:08	1555,656	1548,675	-349	-475	226	298
2:09	1555,656	1548,675	-348	-476	228	298
2:10	1555,656	1548,675	-347	-476	229	298
2:11	1555,657	1548,675	-345	-477	231	298
2:12	1555,657	1548,674	-343	-477	233	298
2:13	1555,657	1548,674	-341	-478	235	298
2:14	1555,657	1548,674	-339	-478	237	298
2:15	1555,657	1548,674	-337	-478	240	297
2:16	1555,657	1548,674	-335	-478	243	298
2:17	1555,657	1548,675	-334	-478	245	298

2:18	1555,657	1548,674	-334	-478	246	298
2:19	1555,657	1548,674	-333	-478	249	298
2:20	1555,657	1548,674	-332	-478	251	298
2:21	1555,657	1548,675	-330	-478	254	298
2:22	1555,657	1548,674	-329	-479	257	298
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13:15	1555,716	1548,737	38	-161	250	305
13:16	1555,717	1548,737	48	-160	251	305
13:17	1555,718	1548,737	53	-159	249	305
13:18	1555,719	1548,738	62	-157	250	304
13:19	1555,72	1548,738	70	-155	249	304
13:20	1555,72	1548,738	80	-153	248	304
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13:22	1555,722	1548,739	95	-149	243	304
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13:37	1555,73	1548,747	150	-112	197	305
13:38	1555,73	1548,748	150	-109	194	305
13:39	1555,731	1548,748	153	-107	192	305
13:40	1555,731	1548,749	155	-104	190	305
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13:44	1555,732	1548,75	157	-96	180	305
13:45	1555,733	1548,751	166	-93	178	305
13:46	1555,733	1548,751	169	-90	178	305
13:47	1555,734	1548,751	169	-88	177	306

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13:49	1555,734	1548,752	181	-83	177	306
13:50	1555,734	1548,752	183	-80	176	306
13:51	1555,733	1548,752	180	-78	174	306
13:52	1555,734	1548,753	174	-76	171	306
13:53	1555,734	1548,753	170	-75	169	306
13:54	1555,734	1548,754	171	-74	167	306
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13:58	1555,736	1548,755	194	-66	159	306
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14:31	1555,737	1548,758	165	-54	133	310
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14:38	1555,737	1548,761	198	-37	138	306
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14:43	1555,74	1548,765	229	-22	141	304
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14:49	1555,747	1548,771	253	-2	145	305
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14:51	1555,75	1548,772	268	6	147	306
14:52	1555,751	1548,773	270	10	149	306
14:53	1555,752	1548,774	281	14	153	306
14:54	1555,754	1548,775	281	17	155	307
14:55	1555,776	1548,776	286	21	157	307
14:56	1555,837	1548,776	297	24	162	307
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15:07	1555,887	1548,855	577	80	182	311
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15:10	1555,9	1548,859	683	94	174	312
15:11	1555,905	1548,861	746	101	173	312
15:12	1555,909	1548,863	803	109	173	311
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15:17	1556,009	1548,875	1079	173	167	308
15:18	1556,013	1548,878	1108	187	164	308
15:19	1556,013	1548,88	1136	204	163	308

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15:22	1556,016	1548,887	1212	244	150	307
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15:27	1556,028	1548,896	1311	305	130	307
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15:43	1556,045	1548,927	1540	490	67	308
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15:48	1556,043	1548,937	1529	559	46	310
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15:55	1556,043	1549,012	1482	641	14	314
15:56	1556,046	1549,013	1514	652	12	313
15:57	1556,047	1549,015	1542	663	11	313
15:58	1556,051	1549,017	1556	674	9	313
15:59	1556,054	1549,019	1581	688	7	312
16:00	1556,05	1549,021	1609	701	6	312
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16:14	1556,052	1549,031	1529	815	-53	317
16:15	1556,055	1549,033	1574	821	-54	316
16:16	1556,054	1549,033	1609	829	-53	315
16:17	1556,057	1549,034	1602	836	-56	316
16:18	1556,056	1549,035	1599	842	-59	316
16:19	1556,059	1549,037	1613	849	-65	315
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16:22	1556,057	1549,041	1640	874	-69	315
16:23	1556,06	1549,043	1621	882	-71	316
16:24	1556,058	1549,045	1646	892	-72	316
16:25	1556,055	1549,045	1639	901	-75	316
16:26	1556,055	1549,046	1607	910	-80	318
16:27	1556,054	1549,048	1600	919	-81	318
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16:31	1556,052	1549,051	1542	948	-97	322
16:32	1556,054	1549,052	1561	955	-98	321
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17:22	1556,041	1549,057	1460	1001	-165	325
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17:28	1556,045	1549,062	1440	1038	-166	328
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17:56	1556,042	1549,078	1421	1122	-183	334
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18:03	1556,044	1549,083	1405	1156	-185	337
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19:14	1555,912	1549,051	909	1016	-225	338
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5:07	1555,524	1548,625	-418	-503	192	-8

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8:29	1555,55	1548,645	-211	-388	278	-6
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8:40	1555,635	1548,65	-176	-362	282	-6
8:41	1555,636	1548,651	-173	-360	282	-6
8:42	1555,636	1548,651	-170	-358	283	-6
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9:01	1555,644	1548,659	-101	-304	306	-5
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9:07	1555,647	1548,663	-82	-287	309	-4
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9:45	1555,658	1548,678	-25	-199	293	-2
9:46	1555,658	1548,679	-23	-197	292	-2
9:47	1555,659	1548,679	-20	-195	291	-2
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21:31	1555,709148	1548,768	258	350	-309	7
21:32	1555,709	1548,767	255	346	-307	7
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21:02	1555,685	1548,751963				
<b>Temperatura (ºC)</b>						
<b>Hora</b>	<b>Strain gage-2 (μs)</b>	<b>Dummy-1 (μs)</b>	<b>Dummy-2 (μs)</b>	<b>Xapa (superf)</b>	<b>Marc (superf)</b>	<b>ambient</b>
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## Annex C.- Pressupost

<b>a.- MATERIAL CONSTRUCCIÓ MARC.</b>	
3.60 ml de perfil HEB-100.	
2.50 ml de barra riscada de diàmetre 16 mm.	
2 platines de 150x40x5 mm.	
Platines de 50x40x5.	
2 famelles i dues volanderes.	
Petit material auxiliar.	
SUBTOTAL MATERIAL CONSTRUCCIÓ MARC.	<b>150.00 €</b>
<b>b.- MATERIAL INSTRUMENTACIÓ.</b>	
5 bandes extensomètriques C2A-06-125LW-350	41.55 €
2 sensors de temperatura ETG-50 B/W	26.40 €
2 circuits linealitzadors LST-100C-350D	154.02 €
2 bandes òptiques SG-01	250.00€
SUBTOTAL MATERIAL INSTRUMENTACIÓ	<b>471.97€</b>
<b>c.- LLOGUER DE PROGRAMARI I D'EQUIPS.</b>	
ROBOT	
Lloguer de programa informàtic d'anàlisi d'estructures.	
(Cost actualització/100) x núm. dies	75.00 €
STRAIN SMART SYSTEM 5000 de Vishay.	
Lloguer d'interrogador.	160.00 €
(Cost compra/50)	
FBG SCAN 800D.	400.00 €
Lloguer d'interrogador.	
(Cost compra/50)	
TESTOR 435	95.00 €
Lloguer del aparell + sondes.	
(Cost setmana) x núm. setmanes	
SUBTOTAL LLOGUER DE PROGRAMARI I EQUIPS.	<b>730.00 €</b>
<b>d.- DEDICACIONS.</b>	
Construcció i condicionament del marc.	
Inclou tall i preparació d'arestes, soldat, neteja, desengreixat i pintat del perfil amb una capa de mini i dues de pintura metal-litzada de color gris.	
Construcció: 8.00 hores operari qualificat <sup>1</sup> .	
Condicionament: 4.00 hores becari <sup>2</sup> .	190.00 €
Muntatge instrumentació.	
Inclou preparació de superfícies, encolat de sensors.	
Inclou també connexió de sensors a interrogadors i calibrat dels mateixos.	
Muntatge: 10.00 hores becari.	
Connexionat: 2.00 hores operari qualificat.	115.00 €
Seguiment assaig.	
Inclou inici i seguiment de la prova, amb presa de dades complementàries manuals durant tot el procés.	
Seguiment: 24.00 hores becari.	180.00 €

<sup>1</sup> El preu hora de becari UdG inclosa l'assegurança es quantifica en 7.50 € (7.50€/hora).

<sup>2</sup> El preu hora d'operari qualificat es quantifica (inclosos tots els conceptes) en 20.00 € (20.00€/hora).

Preparació i redacció del document. Inclou elaboració de l'estat de l'art i cerca d'exemples reals d'aplicació de tècniques d'instrumentació. Inclou desenvolupament conceptual i càlcul de l'estructura suport. Inclou disseny de l' instrumentació. Estat de l'art: 150 hores becari. Disseny equip: 150 hores becari: Redacció: 300 hores becari.	4500.00 €
SUBTOTAL DEDICACIONS	<b>4985.00 €</b>
<b>e.- ALTRES DESPESES.</b>	
Desplaçaments. 4 viatges anar i tornar a Tossa de Mar.	89.60 €
Fotocopies, enquadrernació i reproducció.	100.00 €
SUBTOTAL ALTRES DESPESES.	<b>189.60 €</b>
TOTAL	<b>6526.57 €</b>
I.V.A. (18%) <sup>3</sup>	<b>1174.78 €</b>
TOTAL	<b>7701.35 €</b>

L' import final del present projecte és de set mil set-cents un euros amb trenta-cinc cèntims (**7701.35 €**).

Signat:

Joan Cho Heang Lee Vergés

Girona, 19 d' agost del 2012

<sup>3</sup> L'IVA vigent durant el període de desenvolupament, execució i redacció del resultats era del 18%.