GFL
GAUGE FACTORS LTD
Advanced Strain Gauge Systems

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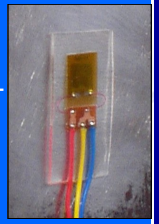
PU ENCAPSULATED STRAIN GAUGES

HT encapsulated strain gauges

Technical:

- No soldering
- Easy application
- Thin flexible ,clear coating.
- Environmental protection to IP 65
- Gauge resistances 120, 350 & 1000Ω
- Gauge grid lengths; 0.17mm to 125mm
- High temperature version (up to 350°C)
- Full technical support
- High fatigue life version available.
- Installation training available

A HT encap for concrete applications



High fatigue-life version

PU Encapsulated strain gauges are a quick , easy to install option for field and test applications.

Clear, flexible coating prevents any risk of gauge grid contamination still allowing easy installation with original alignment marks.

Pre-wiring eliminates potential problems with over heated solder dots making encapsulated strain gauges ideally suited for plastics, wood and composite materials.

PU Encapsulated strain gauges are a cost effective alternative to traditional strain gauge installations, reducing installation time on -site and in-house.

On -site Installation of a PU Encapsulated strain gauge

TRAINING COURSES.

TRAINING. Strain gauge installation courses.
Learn surface preparation, alignment & bonding techniques, following the process through to protective coating and final testing.
Modules 1-4– installation of PU encapsulated, weldable and High temperature encapsulated strain gauges.
Modules 5-6 -I installation of standard strain gauges
Module 7- basic soldering and wiring techniques.

TAILOR MADE TO SUIT YOUR NEEDS. . . .

As well as our range of HT & PU encapsulated strain gauges, Gauge Factors are able to offer Weldable and Concrete embedment gauges and tailor made full bridge sets.

Cable types and lead lengths to suit your needs.

For more information on our full range of products & services please contact:

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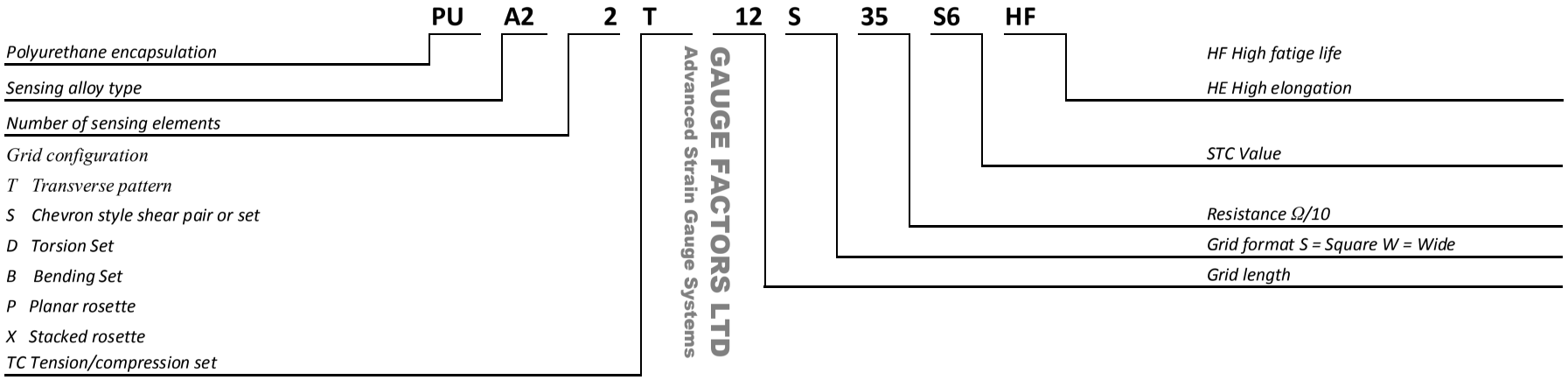
Technical specification
Polyurethane encapsulated Strain gauges



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Gauge Type	A1	A2	A3	A5	XP99	CEA	EP08	WDDY
Gauge Alloy	Constantan	Constantan	Karma	Karma	Karma	Constantan	Constantan	Isoelastic
Carrier Material	Laminated Polyimide	Laminated Polyimide	GRPE	Laminated Polyimide	Laminated Polyimide	Polyimide	High elongat -ion Polyimide	GRPE
Terminal type	Copper	Integral BeCu	Copper	Copper	Integral BeCu	Integral Cu	Copper	none
Encap. Material	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane	Polyurethane
Temp. Range								
Recommended	-20ºCto95ºC	-40ºCto125ºC	-40ºCto125ºC	-40ºCto125ºC	-40ºCto125ºC	-40ºCto125ºC	-40ºCto125ºC	-40ºCto125ºC
Short term	-30ºCto120ºC	-65ºCto165ºC	-65ºCto165ºC	-65ºCto165ºC	-65ºCto165ºC	-65ºCto165ºC	-75ºCto165ºC	-65ºCto165ºC
Strain Limit >3mm	±4%	±4%	±1.5%	±2%	±2%	±4%	±20%	±0.5%
Strain Limit <3mm	±2%	±2%	±1%	±1	±1	±2%	±10%	±0.5%
Fatigue Life								
±1000µΣ	10^7	10^7	10^8	$>10^7$	$>10^7$	10^5	10^4	$>10^8$
±2000µΣ	10^3	10^3	10^7	10^7	10^7	10^3	NR	10^8
Frequency Response	100kHz <3mm	100kHz <3mm	100kHz <3mm	100kHz <3mm	100kHz <3mm	100kHz <3mm	100kHz <3mm	100kHz <3mm
Recommended Adhesive:	STAB 1,4, 6,10	STAB 1,4,6,10	STAB 1,4,6,10	STAB 1,4 ,6,10	STAB 1,4,6,10	STAB 1,4,6,10	STAB 1,4,6,A12	STAB 1,4,6,10
Gauge length (mm)	0.38 to 125	0.38 to 125	0.76 to 100	1.52 to 12.7	0.17 to 12.7	0.38 to 125	0.17 to 12.7	1.27 to 12.7

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