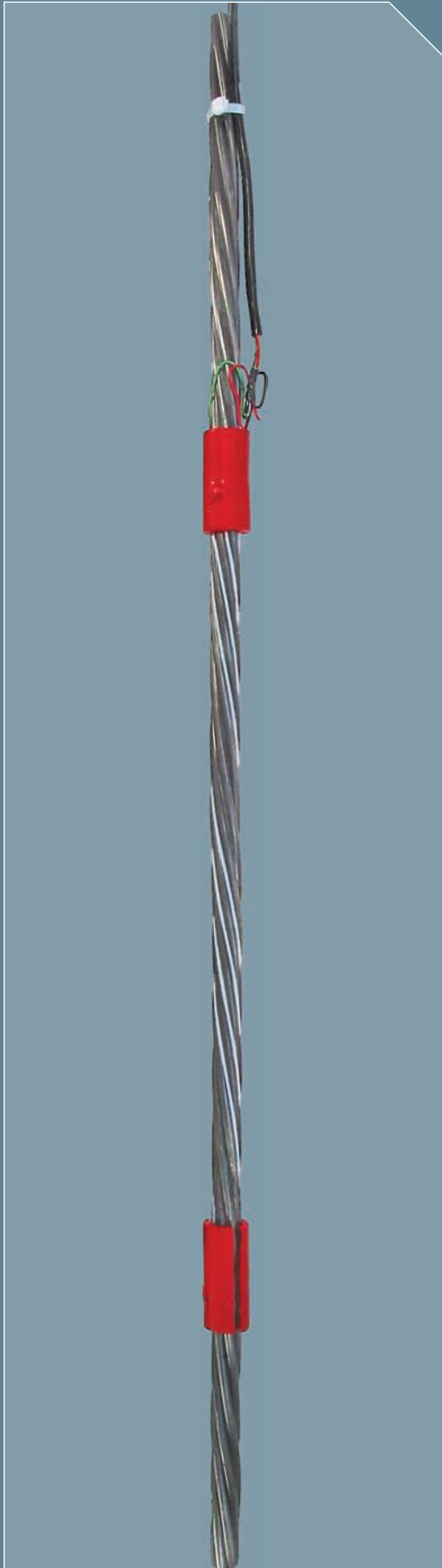




TENSMEG - Tension Measuring Gauge for 7-Wire Strands



The TENSMEG (tension measuring gauge) for monitoring strand tendons, is a spiral strain gauge comprised of a Teflon® coated resistance wire, extending between two hard, rubber end anchors.

The TENSMEG is a highly accurate, simple to use, and cost-effective means to examine load and strain in rock and soil anchors, and also in cable bolts used for rock support. Pre-stressed and post-tensioned concrete load and strain may also be effectively measured.

Due to its construction, the resistance wire is precisely inserted into the spiral grooves of the 7-wire strand used for anchors and therefore is well protected. The gauge has exceptional linear response, accuracy, and long term stability with water resistance capability. Specifications are unaffected when the TENSMEG is surrounded by cement grout or embedded in concrete structures.

The P3 Strain Gauge Readout can be used on the TENSMEG for readings.

specifications

ITEM	DESCRIPTION
Full Scale Tension	Exceeds 50,000 $\mu\epsilon$
Full Scale Compression	3000 μ , dependent on level of pre-tension applied during installation
Resolution	1 $\mu\epsilon$
Accuracy	2% F.S.
Length	48 cm (18.9 in) - other lengths available upon request
Gauge Factor	2.0 nominal
Gauge Resistance	120 Ohm
Excitation Voltage	1 V - 10 V DC
Initial Creep	Less than 30 $\mu\epsilon$, 48hrs. after installation
Total Creep	Less than 100 $\mu\epsilon$, 3 months after installation
Yield Limit of Resistance Wire	4,000 - 18,000 $\mu\epsilon$ depending on gauge length
Maximum Water Pressure	Tested to 1 MPa
Temperature Effect	Less than 1 $\mu\epsilon$ / °C (-10° to 75°C)

ordering info

ITEM	PART #
TENSMEG Strain Gauge 48 cm long	ELTM4800LH
TENSMEG Electrical Isolation Coating	ELTM1040
TENSMEG Installation Tool Set	ELTM1000
TENSMEG Bonding System (10 gauges)	ELTM1020
TENSMEG Strain Gauge Readout - Model P3	ELP-3500

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INSTRUMENTS

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Europe & MENA

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ISO 9001:2000
REGISTERED QUALITY SYSTEM

applications

Measure load and strain in rock and soil anchors in the bond or stressing zone.

Measure load and strain in cable bolts and in prestressed and post-tensioned concrete.

features

Exceptional linear response and accuracy in a low cost system.

Simple to use and implement on the job site.

Sturdy design with Teflon® coated resistance wire provides ultimate reliability and durability.

Specifications or performance are not compromised when embedded in concrete or surrounded by cement grout .

Water resistant.