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Analytical Technologies Limited

An ISO 9001 Certified Company

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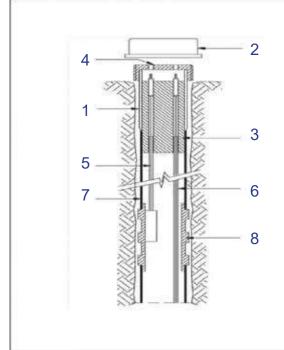
The MBE-3700 Series Borehole Extensometer Electrical/Mechanical (E/M), single or Multi-Point Borehole Extensometers are used to accurately measure longitudinal displacement in rock masses or concrete boreholes. It is particularly useful for distinguishing deep seated movements from surface spelling, which is of value in assessing the need for or determining the efficiency of a rock bolting system. The rugged low cost rod extensometer is designed to be easily installed in difficult locations.

FEATURES:

- Easy to install
- Standard design to use mechanically/electronically
- Highly accurate when used with vibrating wire displacement sensors
- In built Thermistor and gas discharge tube
- · Individual sensors for multi-point applications
- Light weight

>> TYPICAL AAPLICATION:

- Deformation around tunnels. Mines and other excavations
- Settlement of structures
- Stability of natural and cut slopes
- Deformation in dams and embankments
- Displacement of structures



- 1. Stainless steel tube
- 2. Protective cap
- 3. Rod guide tube
- 4. Reference plane
- 5. Spring steel rods
- 6. Semi-rigid plastic tube
- 7. External polyethylene sheath
- 8. Ribbed steel anchors

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DESCRIPTION:

The MBE-3700 Series E/M Borehole Extensometer is comprised of a group of 1 to 6 stainless steel/fiber rods individually sheathed in a protective rigid PVC pipe and attached to an anchor. A reference head, anchored at the surface terminate the protective PVC pipe.Movement of the anchor relative to the head changes the distance between the head and the force end of the rod. Two types of head are available. The model (Mechanical) uses a dial or depth gauge to measure change in distance. The depth gauge has an engraved scale or digital readout. The model with remote sensor uses simultaneous Vibrating Wire displacement transducers MBE 3800 to measure the change in distance Single-Point and Multi point head configuration is available for both models Vibrating Wire displacement transducers has a built-in thermistor facility to read temperature. All displacement transducers are available to monitor anchor movements remotely and are sealed against moisture and water intrusion. A watertight overall housing seals the former; the transducer casing and housing doubly seals the latter. Both head terminate with protective capes that are removable. The heads are grouted in place at the borehole collar.

INTERPRETATION:

Both electrical and mechanical readings can be taken. Mechanical readings are taken with either a dial gauge or depth gauge. Electrical readings are obtained from the output of the MBE-3800 Vibrating Wire type transducers.

SERIES	MBE-3700-BSE	MBE-3700-BME
EXTENSOMETER ROD	Stainless Steel	Mild Steel
REFERENCE HEAD	Stainless Steel	Steel Casting
CASING	PVC/Aluminium	PVC/Aluminium
COVER	PVC/Aluminium	Mild Steel

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SPECIFICATIONS (MATERIALS):



>> SPECIFICATIONS:

Borehole Diameter		38mm		48mm		61mm	76mm	101mm
Max. No. of Points		1		2-3		3-4-5	3-4-5	5-6
Instrument	-	Dial Dep Gauge Gau				/ire	Vibrating Wire	Vibrating Wire
Measuring Range	0-	-50mm	0-150mm 25,50,75m		n	25,50,75mm	25,50,75,100	
Linearity	0.	05%	0.05% 25,50,75m		n	Typically 1%	Less Than 1%	
Operating Temperature	0'	°-60°C	0°-60)° C	-20° to 60° C		-20° to 60° C	-20° to 60° C
Cable					4 Core Shielded		4 Core Shielded	4 Core Shielded
Thermistor 3KOhm		Included						
Electrical Surge Protector		Optional						

SINGLE POINT MECHANICAL ROD EXTENSOMETERS

Model MBE-3700-1 **SPECIFICATION** Standard Range up to 100 mm Least Reading 0.025 mm Borehole Diameter 35, 44, 51, 61mm Maximum Length 10 m

MULTIPOINT MECHANICAL ROD EXTENSOMETER & V.W Displacement Sensors Model MBE-7002 **SPECIFICATION** Borehole Diameter 76 mm or over Maximum Length 100 m

EXTENSOMETER ANCHOR TYPE

Snap-Ring Anchor :

- Grout able Anchor:The preferred anchor for use in downward-directed boreholes.Hydraulic Anchor:For use in rough boreholes in rock and soft ground
 - For use in hard or competent rock

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READOUT INSTRUMENTS AND SENSORS **Digital Depth Micro-meter Dial Indicator VW Displacement Transducer** Standard Range up to 100 mm nominal



HPLC Servicing, Validation, Trainings and Preventive Maintenance :

HPLC Servicin	g :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most
	affordable cost.
Trainings	:We also take up preventive Maintenace to reduce downtime of HPLC's Trainings.
AMC's/CMC	:AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-
	shooting.
Validations	:Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.
• • •	

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps, detector etc. on Rent.





About Analytical Technologies

Analytical Technologies is synonymous for offering technologies for doing analysis and is the Fastest Growing Global Brand having presence in at least 96 countries across the global. Analytical Technologies Limited is an ISO:9001 Certified Company engaged in Designing, Manufaturing, Marketing & providing Services for the Analytical, Chromatography, Spectroscopy, Bio Technology, Bio Medical, Clinical Diagnostics, Material Science & General Laboratory Instrumentation. Analytical Technologies, India has across the Country operations with at least 4 Regional Offices, 6 Branch Offices & Service Centers. Distributors & Channel partners worldwide.

Optima Gas

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2979 Plus

Our Products & Technologies







Optical Emission Spectrophotometer

Fully Automated

CLIA





Infra FTIR

Optima Gas Chromatograph 3007





Semi Auto Bio





HEMA 2062

Hematology

Analyzer



Flash

Chromatograph

Micro Plate

Reader/Washer





Liquid Partical Counter



Total Organic Carbon 3800





NOVA-2100 Chemistry Analyzer

PCR/Gradient PCR/ RTPCR

TOC Analyzer

Laser Particle Size Analyzer



Atomic Absorption



URINOVA 2800

Urine Analyzer

Ion Chromatograph

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @





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