

Model LMI	Large Meter Interface	Technical Brief
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DESCRIPTION

APPLICATION: The Model LMI Larger Meter Interface is designed for use with RECORDALL® Compound Generators, and Kent, Sensus, Schlumberger and Hersey Self-Powered Generators known output as of 6-93, to provide output compatible with ORION® Pit and Remote transmitters and TRACE® remote transponders. The LMI BR/PR/TR is used with the TRACE Remote.

OPERATION: The LMI is designed to condition a generator pulse so it is acceptable as input to ORION and TRACE remote modules.

MOUNTING: The LMI connects via a splice kit to the transmitter wire run, and connects to the generator via a two-wire lead.

CONSTRUCTION: The housing is constructed of high strength, corrosion-resistant polycarbonate. Internal construction materials are plastics and corrosion resistant fasteners selected to insure long operating life.

TEMPERATURE: Operating range is 0°C to 60°C (32°F to 140°F). The water meter should not be subjected to temperatures below freezing.

MOISTURE: The LMI is water resistant and designed for use in 0% to 100% relative humidity.

ELECTRONICS: The circuit board is completely sealed against moisture by a conformal coating, and potted in place to assure protection from humidity.

ELECTRICAL: The electronic circuitry is designed to provide immunity to electrical surges and transients.

OPERATING CHARACTERISTICS: The LMI has an output with the characteristics of an Open Collector Transistor. Each signal has a typical rise time of 1 millisecond and a duration of 17 milliseconds at ambient temperature. Pulse duration is 6 to 25 milliseconds over the entire temperature range. On state resistance is 25 ohms. Off-state impedance for the LMI BR/PR/TR is an open circuit and 240K ohms for the LMI FF. The LMI has a maximum rating of 150 VDC @ 100 mA (@ 25°C).



SPECIFICATIONS

Humidity	0% to 100% Condensing
Operating Temperature	0°C to 60°C (32°F to 140°F)
Output Signal Characteristics	Open Collector
Resolution	Equal to generator
Typical Rise Time	1 millisecond (ms)
Typical Signal Duration	17 (ms) @ 25°C (77°F) 6 to 25ms over operating temperature range
On State Resistance	25 Ohms @ 25°C (77°F)
Off State Impedance	LMI FF 240K Ohms LMI BR/PR/TR Open Circuit
Power Source	External.
Maximum Switching	150V @ 100mA @ 25°C (77°F)

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LMI-T-25

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