

Laser Process Monitor :Technical Specifications

LPM is an all-industrial measurement monitor to read power or energy effectively delivered to the work piece .

Electronics can be installed inside industrial cabinets on standard MR9DIN rails. Detectors can be placed up to 5m afar, e.g. right under a focusing head , to monitor any variation on delivered beams at the process area.

Alarm signals can be sent to the laser machine or statistical analysis on beam performances can be done up to 24hours with LPM-SOFT



LPM: CE Version

Power Meter Mode

Power Ranges: *1mW to 10kW*
Resolution: *0.5‰ for any Full Scale*
Response Time: *<1-5 sec. (depends on each specific head)*

Energy Meter Mode

Power Range: *1mJ to 300J*
Resolution: *0.5‰ for any Full Scale*
Response Time: *<1-5 sec (depends on each specific head)*

FIT Mode

Power Ranges: *1mW to 10kW*
Resolution: *0.5‰ for any Full Scale*
Response Time: *4 sec (final value)*

General

Electronics Housing : *Standard DIN rail*
Interfaces (two mod.): *Remote RS232 (RS485-optional on request) & Local or only Local*
DAC/ADC: *12Bit*
Digital Input (Measurement Trigger): *3-30 Vac /dc Opto -isolated*
Analogue Output (two std): *Opto -Isolated 0- 10V or 4-20mA*
Detector Input: *15 Pin DIN Female Connector*
Input/Output interface: *Screw terminals*
Digital Output: *Opto -Isolated RS232 (RS 485 Mod-BUS Protocol-optional)*
Process GO/NO GO Process Relay: *220V, 10A (COM-NC-NO)*
Firmware: *Three Algorithms (Power , Energy, LaserProbe,)*
Power Supply AC (V) @ 50-60Hz: *24 ± 15% -600mA (Input transformer)*
Operating temperature range (°C): *10 to 40*
Size LxWxH (mm): *155x90x70*