



JR TECHNOLOGY
LIMITED

REINFORCED PLASTICS & COMPOSITES
PRODUCTION ENGINEERS

M50-P MOISTURE & CURE MONITOR

This non invasive, universal moisture meter has been developed as an accurate & easy to use instrument which allows the user to measure moisture / degree of cure either as a hand held unit or as part of a process control system input to PLC. It is small, rugged & light enabling it to be used in awkward situations. Being fully sealed & designed to meet the IP67 water & dust proof rating it offers reliability even in the most aggressive of environments. This makes it ideal for data capture & industrial applications where multiple units can be installed.

It will operate on any non-metallic / non-carbon material, including: composite laminate/sandwich (polyester, epoxy, vinyl ester, phenolic resins), timber, carpet, concrete, brick, etc, measuring the dielectric constant of the material under test.

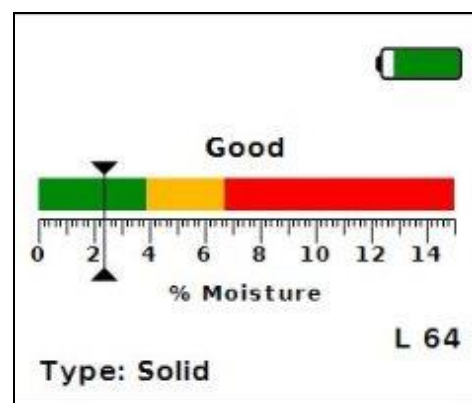
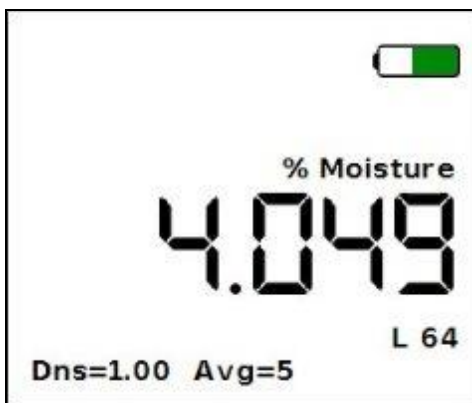
The unit can be set for use on specific materials by entering the product density to give an accurate percentage value, or as a comparator measuring the variation in moisture content over a component showing dry and damp spots. It operates effectively on both flat or curved surfaces.

Output is via any of a number of options:

- PC via a USB digital connection
 - PLC via analogue voltage generator
 - Hand held portable indicator/recorder, with full colour LCD.
- There are two software versions available for the hand-held display :

- Numerical to 3 decimal places

- Radome GO / NO GO, with variable sound level indicator & 3 x density settings (honeycomb, foam & solid)



Designed as a superior alternative to the well-established A8-AF, makes it ideal for a wide range of aerospace / aviation applications.



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M50 GENERAL FEATURES :

- Universal probe can be used either as a hand held unit or as part of a process control system
- Clear read-out with direct reading (no charts / tables required)
- Designed to meet the IP67 offering accuracy & reliability even in the most aggressive environments
- Is effective on most non-conductive materials
- Deep penetrating field, up to 40mm depth
- Works on flat or curved surfaces



M50-P PROBE SPECIFICATION :

- Probe Ø OD : 57mm
- Sensor Ø : 28 mm
- Field depth penetration : up to 40mm (readings relate to inverse square rule)
- Range : 0 to 50%
- Power consumption : nominal 10 milli Watts
- Operational temperature range : -20 to +85 deg C; high temperature unit (to 120 deg C) available
- Weight : 150g for Al probe (option for stainless steel)
- Rugged : designed to conform to IP67 (dust & moisture resistant)
- Communication interface : USB, cable = 1.8m long (other lengths available)
- Software operating systems : XP & Windows 7

M50-PHP-P HAND HELD DISPLAY SPECIFICATION :

- Portable indicator / recorder, with full colour LCD
- 2 x Software versions, either:
 - o GO/NO GO, with variable sound level indicator & 3 x density settings (honeycomb, foam & solid)
- OR
- o Numerical to 3 decimal places
- Moisture displayed as % moisture by weight
- Rechargeable batteries giving up to 20 hours live (continuous usage)
- Data logs (with time & date stamp) for down load to a PC via USB docking station (used for re-charging)
- Configurable items include: material density (8 'named' settings), zero offset, resolution / data collection speed
- Designed to conform to IP67 (dust & moisture resistant)



For more information or to request a demonstration please contact us



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