



DMMS - Digital moisture measuring system

Measuring principle:	Capacitive (determination with high-frequency leakage field 16...22MHz)
Measuring range:	Moisture: 0...100% Temperature: -20...120°C (both ranges adjustable)
Measuring accuracy:	+/- 0,1% moisture (depending on material / sensor installation)
Measuring mode:	Continuous measuring // Batch measuring
Ambient / material temperature:	5...80°C
Measuring depth:	150mm (depending on material / compaction)
Sensor dimensions:	Ø = 76mm / H = 70mm
Material housing / wear protection:	Stainless steel (1.4301) / ceramic (ZrO2Al2O3)
Protection class:	IP68
Sensor mounting:	Clamp flange (variable installation depth)
Power supply:	24V DC / 0,4VA (per sensor)
Output:	Profibus DP // optional Analogue output (e.g. 4...20mA)
Max. number of sensors:	16 (at sensor bus)
Sensor communication:	Sensor bus RS485
Max. cable length:	1.200m
Bus cable:	2x2x0,25mm ² , shielded twisted pair cable
Options:	Sensor with extended temperature range, up to 100°C // Sensor housing made of V4A (1.4462) // Silo sensor, with 600mm mounting arm // Mixer sensor with 10mm ceramic measuring surface // Sensor with Ex-protection, zone 22 (II 3D Ex tD A22 IP6X T85°C) // Digital inputs // Digital outputs
Requirements for calibration software:	WIN 95 / 98 / ME / 2000 / XP / Vista / 7 / 8 + USB, RS232 or LAN connection