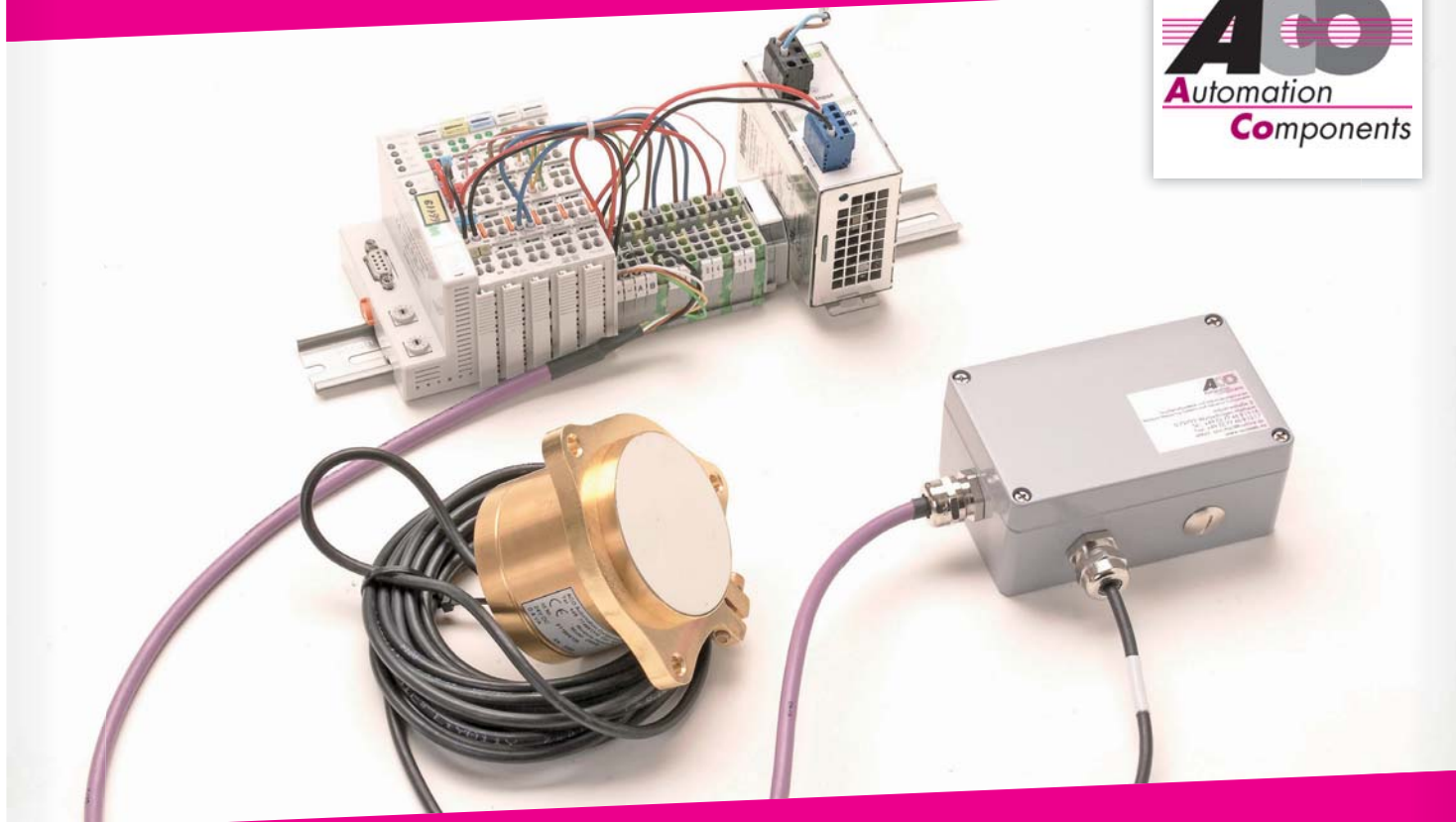




### DMMS - Digital moisture measuring system

|                                        |                                                                                                                                                                                                                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring principle:                   | Capacitive (determination with high-frequency leakage field 16...22MHz)                                                                                                                                                                                                                                       |
| Measuring range:                       | Moisture: 0...100%<br>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 (ZrO <sub>2</sub> Al <sub>2</sub> O <sub>3</sub> )                                                                                                                                                                                                                         |
| 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 <sup>2</sup> , shielded twisted pair cable                                                                                                                                                                                                                                                         |
| Options:                               | Sensor with extended temperature range, up to 100°C //<br>Sensor housing made of V4A (1.4462) //<br>Silo sensor, with 600mm mounting arm //<br>Mixer sensor with 10mm ceramic measuring surface //<br>Sensor with Ex-protection, zone 22 (II 3D Ex tD A22 IP6X T85°C) //<br>Digital inputs // Digital outputs |
| Requirements for calibration software: | WIN 95 / 98 / ME / 2000 / XP / Vista / 7 / 8<br>+ USB, RS232 or LAN connection                                                                                                                                                                                                                                |