



FA 510 / FA 515

New dew point sensors with sophisticated service concept

In addition to the previously common 4...20 mA analogue output the new generation of dew point sensors have a digital RS 485 interface (Modbus-RTU). All values like e. g. dew point, temperature, absolute humidity ... which are measured and calculated by the dew point sensor can be retrieved via the Modbus protocol.

Compared with the previous models the sensorics and evaluation electronics have been improved once again, especially the integrated temperature compensation. This means: Increased accuracy at different ambient temperatures and an improved resolution of the sensor signal. Like the previous models the new dew point sensors have an excellent long-term stability and show reliable measured values. The sensor element is insensitive against condensation and due to the serial sintered cap made of stainless steel it is protected against direct contact with soiled particles.

The service concept:

One-point-calibration on site

FA 510/515 can be calibrated on site, i. e. during the measuring process, by means of the hand-held instrument DP 510 (reference instrument).



Sensor diagnosis on site

A sensor diagnosis can be carried out on site, i. e. during the measuring process, via the digital RS 485 interface (Modbus-RTU). The measured data can be read out either by means of the portable instruments DP 510, PI 500, DS 400 mobile, DS 500 mobile or by means of a laptop with CS Service Software. The status of the residual humidity sensor element is read-out as well as the status of the temperature sensor element and the date of the last calibration.



Changing the sensor settings on site

In addition to the sensor diagnosis also the following sensor settings can be done on site by means of a laptop or portable instrument:

- Scaling of the 4...20 mA analogue output
- Allocation of the parameter to the analogue output (e. g. 4...20 mA = 0...10 g/m³)