

ALMEMO® dewpoint sensor FHA 646 DTC1, dewpoint transmitter MT 8716 DTC1



- Especially suitable for monitoring pressurized systems
- Digital transfer of measured values to the ALMEMO® display device (avoids risk of inaccuracy on connecting lines or display section itself)
- High-level accuracy sustained down to -80 °C
- Quick response time
- Displayed variables: temperature, relative humidity, dewpoint
- Process connection for high pressures (option, up to 350 bar).

Technical data

Measuring range	-80 to +20°C dewpoint temperature (DT)
Measuring accuracy	± 0.5 °C from -10 to +20 °C DT typical ±2 °C DT at -40 °C DT
Measuring channels (FHA646DTC1 only)	
temperature	-20.0 to +70.0 °C
Relative humidity	0 to 98.0 % RH
Dewpoint	-80.0 to +20.0 °C (DT)
Operating temperature	-20 to +70 °C
Process connection	Screw thread G 1/2-inch, stainless steel
Protective cap	Sintered stainless steel filter
Pressure range	-1 to +50 bar standard
Storage temperature	-40 to +80 °C

FHA 646 DTC1	
Output	ALMEMO® digital
Power supply	via ALMEMO® plug, approx. 5 mA
Connection	Cable, 1.5 meters, with ALMEMO® plug
MT 8716 DTC1	
Output	4 to 20 mA / -80 to +20 °C (DT), 2 wires
Power supply	10 to 30 VDC, load <500 ohms
Connection	Transmitter connector
Housing	
Material	Polycarbonate
Protective class	IP65

Accessories

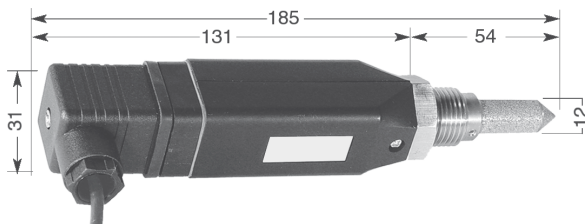
Order no.

Screw-on measuring chamber for connecting a dewpoint transmitter to compressed air pipes via a ball valve up to maximum 16 bar including perforated protective cap **ZB9646DTCK**
 Advantage: high-speed measuring without waiting for installation.



Option

Dewpoint sensor for process pressure up to 350 bar **OA9646DTCP**



Variants including factory calibration certificate

ALMEMO® dewpoint sensor with connecting cable, 1.5 meters long, and ALMEMO® plug
 Dewpoint transmitter with current output, including connector
 Factory calibration KH93xx, dewpoint, for digital sensor (see chapter „Calibration certificates“)

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FHA646DTC1
MT8716DTC1