

- 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)
- \bullet High-level accuracy sustained down to -80 $^{\circ}\text{C}$
- · 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	$\pm~0.5~^{\circ}\mathrm{C}$ from -10 to +20 $^{\circ}\mathrm{C}$ 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")

Order no. FHA646DTC1 MT8716DTC1