

JUMO hydroTRANS Series

Humidity and temperature transmitter with optional CO₂ module for HVAC applications



The features at a glance

- Precise monitoring of environmental influences
- Variants for different installation locations
- Low maintenance requirements, easy filter cap replacement
- Easy installation via established interfaces, minimal installation requirements



Brief overview

Devices of the JUMO hydroTRANS series are reliable humidity and temperature transmitters with an optional CO₂ module. They operate according to the capacitive measurement method. The device series is available with various interfaces. Moreover, it is characterized by easy installation, robustness, and reliable sensor technology. Depending on the type, the measuring range is 0 to 100 % RH and the

accuracy is 2 % RH. The variants can be used in temperature ranges between -40 and +80 °C. Variants with an optional CO₂ module that have a measuring range of up to 10 000 ppm are available for the precise determination of the indoor air quality. Very low response times can be achieved by placing the module in the probe head. A voltage and current output as well as Modbus are available as interfaces.

Technical data



Product name	JUMO hydroTRANS S20	JUMO hydroTRANS S30	JUMO hydroTRANS S40	JUMO hydroTRANS S10
	Humidity and temperature transmitter with CO ₂ option			
Type	907042	907043	907044	907045
Version	Wall-mounted	Duct	Rod	Indoor
Application	Heating – ventilation – air conditioning (HVAC), building automation			
Sensing element	Capacitive humidity and temperature sensor			
Measurement medium	Air (unpressurized, non-aggressive)			
Measuring range	Humidity: 0 to 100 % RH Temperature: -40 to +80 °C CO ₂ : 400 to 10 000 ppm			Humidity: 0 to 95 % RH Temperature: -5 to +55 °C CO ₂ : 400 to 5 000 ppm
Output	4 to 20 mA, 0 to 10 V, Modbus RTU (RS-485)			
Voltage supply	24 V DC (standard)			
Protection type	IP65			IP20
Optional	Display, CO ₂ sensor		CO ₂ sensor	Display, CO ₂ sensor
Special features	Single Pair Ethernet (SPE) interface	Suitable for railway applications according to DIN EN 50155		–