

Hygro and Hygrothermal Transducer (Hygrometric) (907031)

For measuring relative air humidity and temperature

- For indoor, air duct, and outdoor mounting
- With resistance, current, or voltage outputs
- Can be used continuously in areas of high humidity (up to 100 % RH) (duct version)
- No voltage feed required for passive devices
- In normal circulated air, the sensing element is largely maintenance free



Order details

(1) Basic type				
			907031/10	Hygro/hygrothermal transducer, indoor version (passive)
			907031/20	Hygro/hygrothermal transducer, duct version (passive)
			907031/30	Hygro/hygrothermal transducer, duct version (active)
(2) Version				
X	X	X	1	Humidity (channel 1 output)
		X	2	Humidity and temperature
X	X		3	Humidity and temperature (passive)
(3) Range(s)				
	X		15	0..100 % rH/ -40..+80 °C
		X	21	0..100% rH/ -30..+60°C
X			32	0..100% rH/ 0..+60°C
		X	36	0..100% rH/ 0..+100°C
X	X	X	99	Special range (on request)
(4) Output				
		X	005	4 to 20 mA / 4 to 20 mA
		X	011	4 to 20 mA / 0 to 20 mA
X	X		016	0 to 100 # (2-pole output, linear) / Pt100 (passive)
X	X		017	0 to 200 # (2-pole output, linear) / Pt100 (passive)
X	X		019	0 to 1000 # (2-pole output, linear) / Pt100 (passive)
X	X		021	100 to 138, 5 # (2-pole output, linear) / Pt100 (passive)
		X	065	0 to 10 V / 0 to 10 V
X	X	X	999	Special output (upon request)
(5) Extra codes				
X	X	X	000	Without extra code

Order code

(1)	(2)	(3)	(4)	(5)

Quantity discount:

As of 5 pieces: 5 %

As of 10 pieces: 10 %

As of 25 pieces: please inquire

Important information:

Refer to data sheet 707500 for suitable power supply units for the hygro transducers / hygrothermal transducers.

Recommended power supply units: type TN-22/02, 055 (1-channel) and TN-67/02, 055 (4-channel).

Please note the humidity working range and the admissible ambient temperature (see "Technical data"). A second output is only available with combination devices (humidity and temperature).

Stock versions

Order code	Part no.
907031/10-3-32-021/000	90590507
907031/20-3-15-021/000	90590517



907031/30-1-21-005/000	90590541
907031/30-2-21-005/000	90590544

Accessories

Description	Part no.
Humidity sensorcheck: 33%rF Feuchte 90.7020 907020 907020/93 907020/93-820 90.7021 907021 907021/93 907021/93-820 90.7022 907022 907022/93 907022/93-820 90.7023 907023 907023/93 907023/93-820 90.7031 907031 907031/93 907031/93-820 90.7032 907032	00332758
Humidity sensorcheck: 53%rF Feuchte 90.7020 907020 907020/93 907020/93-821 90.7021 907021 907021/93 907021/93-821 90.7022 907022 907022/93 907022/93-821 90.7023 907023 907023/93 907023/93-821 90.7031 907031 907031/93 907031/93-821 90.7032 907032 Galltec	00332759
Humidity sensorcheck: 76%rF Feuchte 90.7020 907020 907020/93 907020/93-822 90.7021 907021 907021/93 907021/93-822 90.7022 907022 907022/93 907022/93-822 90.7023 907023 907023/93 907023/93-822 90.7031 907031 907031/93 907031/93-822 90.7032 907032	00332760
Wind protection tube 907031../907032.. Feuchte 2026-09-19	00323439

