

Capacitive Hygrothermal Transducer with Intelligent Interchangeable Probes (907027)

For measuring relative air humidity and temperature

- Measurement throughout the humidity range of 0 to 100 % RH
- Intelligent interchangeable probes for simple replacement
- For operating temperatures between -40 and +80 °C
- Option of separate probes for humidity and temperature
- 2 m, 5 m, or 10 m adapter cable for probe extension
- Robust metal housing, suitable for clean rooms
- Integrated LCD display (optional)
- With standardized current or voltage outputs



Order details

(1) Basic type		
	907027/20	Hygrothermo transducer wall model with combined measurement probe (rF+T)
	907027/21	Hygrothermo transducer wall model with separate measurement probe (rF+T)
(2) Version		
X	X	2 Humidity and temperature
(3) Output		
X	X	005 4 to 20 mA / 4 to 20 mA
X	X	051 0 to 1 V / 0 to 1 V
X	X	057 0 to 5 V / 0 to 5 V
X	X	065 0 to 10 V / 0 to 10 V
(4) Cable gland		
X	X	10 cable gland M16x1,5 (on both sides)
X	X	20 cable gland open at the rear for clean room applications
(5) Type of filter		
X	X	800 PTFE-filter
X	X	889 Stainless steel mesh filter
(6) Display		
X	X	0 Without display
X	X	1 With integrated display
(7) Electrical connection		
X	X	00 Terminals (standard)
X		91 Lumberg connector
(8) Sensor protection		
X	X	1 With coating
(9) Temperature unit		
X	X	0 Deg. C
X	X	1 Deg. F
(10) Range(s)		
X	X	09 0..100% rH/ -20..+60°C
X	X	10 0..100% rH/ -20.. +80°C (stock version)
X	X	14 0..100% rH/ -40..+60°C
X	X	15 0..100 % rH/ -40..+80 °C
X	X	21 0..100% rH/ -30..+60°C
X	X	22 0..100% rH/ -30..+70°C
X	X	32 0..100% rH/ 0..+60°C
X	X	34 0..100% rH/ 0..+50°C
X	X	38 0..100% rH/ 0..+80°C
X	X	99 Special range

Order code

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)

Quantity discount:

2026-09-19

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).

See accessories to find adapter cable(s) for probe extensions with a length of 2 m, 5 m, or 10 m.

Stock versions

Order code	Part no.
907027/20-2-005-10-889-0-00-1-0-10	00556339

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
Stainless steel mesh filter "HA010109" (	00503576
PTFE filter "HA010105"	00503575

