

State-of-the-art HVAC Transmitter for Humidity and Temperature

- Fixed probe fair priced transmitter
- Proven sensor technology for ±1.5 %rh / ±0.3 °C accuracy
- Long term stability better than 1 %rh per year
- On-site validation / calibration with HygroPalm 3 calibrator
- 2 wire loop power or 3/4 wire models available
- Duct, wall and space mount versions
- Swiss made



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The Digital Advantage

The M1-series transmitters use the very latest digital technology. Digital signal processing significantly benefits humidity and temperature measurement in the following key areas:

1. Measurement Accuracy

Digital processing of the sensor signals by the HygroClip probe and associated electronics provides more scope and greater flexibility when compensating sensor characteristics such as linearity and temperature coefficient. The ROTRONIC HYGROMER® capacitive humidity sensor has always been the leader both in precision and stability. With the application of digital technology, sensor performance is now further enhanced. The space version features a retractable probe, which ensures an even more accurate measurement

2. Maintenance and Calibration

Unique HygroClip digital technology virtually eliminates downtime during maintenance. When it is time for a scheduled calibration, the service engineer can check the transmitter with a portable HygroPalm calibrator while it is operating. Alternatively, the top cover containing the electronics may be exchanged without disconnecting the wiring. There is no need to remove the complete transmitter to a calibration laboratory or workshop.

Calibration and sensor data are retained permanently within each M1 transmitter. Software-based calibration is simple and precise; there are no hard-to-reach, hard-to-adjust potentiometers. Multiple calibration points can be selected across the full measurement range.

MAIN FEATURES:

- Software-based probe calibration
- Test connector for communication with the HygroPalm 3 for validation of the output signals

M12 The HygroClip M12 are 2-wire, 4-20 mA loop powered humidity and temperature transmitters. They feature also a digital input / output which is used during calibration. Digital signal processing maintains accurate measurements over the entire operating range.

M13 The HygroClip M13 are 3-wire humidity and temperature transmitters. Their microprocessor-based electronics allows an unparalleled accuracy, stability and versatility. The signal types (0...1V, 0...5V, 0...10V, 0...20mA, 4...20mA) are configurable by the end user. The range of the two analogue outputs can be adjusted by the end user via ROTRONIC HW3 software. The M13 space mount type is also available with an optional display.

ROTRONIC M1					M1							
Example					M1	3	W	2	НТ	1	D	
Supply type:												
2	2 wire	3	3 wire									
D	Duct	W	Wall	S	Space							
Ou	Output signal type											
1	020 mA	2	420 mA									
3	01 V	4	05 V									
5	010 V											
НТ	HT Humidity and Temperature											
НХ	HX Humidity only											
ХТ	Temperature o	nly										
Ter	Temperature output range											
1	050 °C	2	1040 °C									
3	-4060 °C	4	-3070 °C									
D	Digital display	X	no display			M13	S ty	pe on	ıly!			

Installation:

The M-series transmitter feature the proven housing with base plate and cover. Advantage:

- Separation of base plate with wiring from electronics
- Installation of base plate during any phase of construction.
 The electronics module may just be plugged in after completion of construction works
- Electronics module may be removed without modification of wiring
- Existing base plates of FT/FH series are compatible

Service & Schematic diagrams

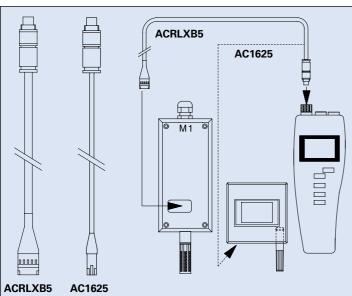
Field Service made easy with the M1-Series

On-site validation and maintenance of sensors is made simple with the new M1-series transmitters. The M-1 series offers the following capabilities for on-site maintenance:

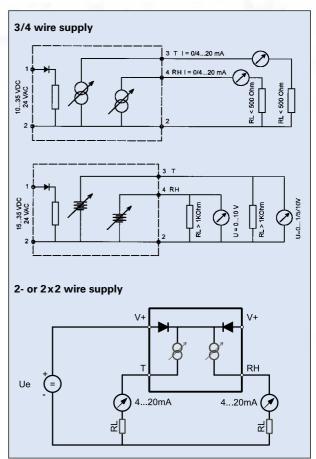
- · Display of relative humidity and temperature values directly from transmitter on the HygroPalm 3.
- Single point calibration of the M1 transmitter using a reference probe attached to the HygroPalm 3.
- Single and multipoint calibration of the M1 transmitter against a known reference environment using the HygroPalm 3.

Cable Nr.	Туре	Output signal	Connector	Description
ACRLXB5	M13	All signal types	B5/HE14-10	Allows for a single point adjustment against the reference probe on the HygroPalm 3. In addition it also allows single or multipoint adjustment against a reference environment.
AC1625	M12S M13S	All signal types	D-sub9/HE14-2	Allows for a single point adjustment against the reference probe on the HygroPalm 3. In addition it also allows single or multipoint adjustment against a reference environment.





Schematic diagrams Electrical connections

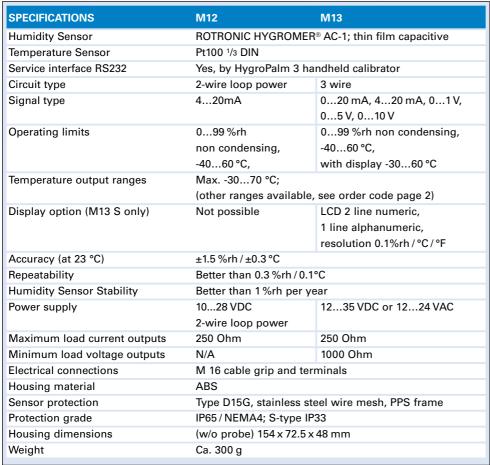




Specifications and order information







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Shopping co
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Storage ı
NAME OF PERSONS ASSESSED.





Railway stations



Greenhouses



Computer / Server rooms

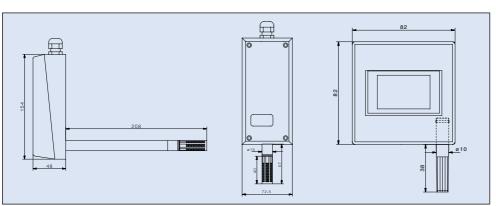


Libraries



ORDER NO. **DESCRIPTION** HW3 HW3 software on CD ROM, multilingual HygroPalm 3 HygroPalm 3 Field calibrator **EAxx-SCS** Humidity standard, SCS certified, pack of 5 where xx = 00 (0 %rh), 05 (5 %rh), 10 (10 %rh), 11 (11 %rh),20 (20 %rh), 35 (35 %rh), 50 (50 %rh), 65 (65 %rh), 75 (75 %rh), 80 (80 %rh), 95 (95 %rh) ER-15 Calibration device for 15 mm probe ER-10MS Calibration device for space mount type

Dimensions



Schools and offices