

Roline L

HYGROCLIP®

Humidity goes Digital



HVAC Humidity and Temperature Transmitter

- Relative humidity and temperature measurement
- 2-wire loop powered or 3-wire circuit type
- Well proven, durable humidity and temperature sensors
- Stable, maintenance free sensors
- On-site validation and calibration with HygroPalm 3 calibrator
- Available as RH & Temperature, RH only, or Temperature only transmitters

rotronic®

LEADING IN HUMIDITY MEASUREMENT



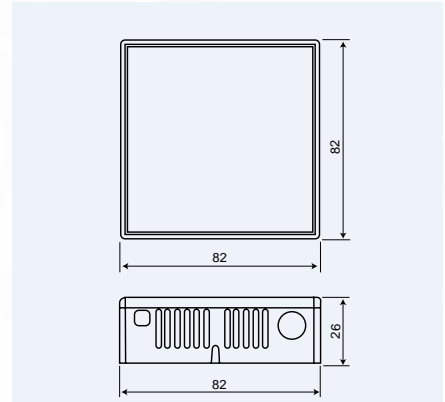
The Roline L transmitters are designed for HVAC applications that require a maintenance free, stable humidity sensor at a moderate price. Using Rotronic's industry leading sensor technology along with state-of-the-art electronics, the Roline L brings a level of reliability to the HVAC market not previously available.

	Roline	L1				
Circuit Type						
2 2 wire loop power						
3 3 / 4 wire						
Mounting						
D Duct (probe length 205 mm)						
S Space (no external probe)						
Output Signals						
1 Humidity & Temperature						
2 Humidity only						
3 Temperature only						
Output signal type						
1 0...20mA (L13 only)						
2 4...20mA						
3 0...1 V (L13 only)						
4 0...5 V (L13 only)						
5 0...10V (L13 only)						
Temperature output signal. Enter "X" if none						
C 0...50°C						
F 0...100°F						

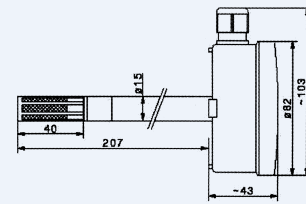
Accessories: Using a HygroPalm 3 plus one of the service cables listed below allows the reading of the analog output signals and a digital calibration of the RH and T sensors.

ACCESSORIES	DESCRIPTION
HygroPalm 3	Handheld Calibrator, single or multipoint adjustment
HygroClip S	RH & T Probe for HygroPalm 3
ACRLXB5	Service cable used to connect the Roline L duct transmitters to the HygroPalm 3. This allows for a local display of the transmitter reading and single point adjustment against the reference probe on the HygroPalm. In addition, it also allows single/multipoint adjustment against a reference environment.
AC1625	Service cable for space mount Roline L.
MOK-01-B5	Used to connect HygroClip S reference probe to HygroPalm 3 calibrator

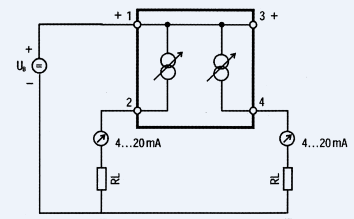
SPECIFICATIONS	L12	L13
Humidity sensor	Rotronic Hygromer® C94 thin film capacitive	
Temperature sensor	Pt100 RTD	
Circuit type	2-wire, loop powered	3-wire
Output signal type	4-20 mA, loop powered	0...1/5/10 V / 0/4...20 mA
Operating limits at probe	0...100%RH and -40...60°C (-40...140°F)	
Operating limits at transmitter	0...99%RH non condensing, -40...60°C (-40...140°F)	
Standard output range	0...100 %RH / 0...50°C or 0...100°F	
Accuracy at 20..25°C / 68..77°F	± 3 %RH and ± 0.5°C/0.9°F	
Repeatability	± 0.3%RH and better than ±0.1°C (±0.2°F)	
Humidity sensor stability	better than 1%RH over a year	
Supply voltage	10..28 VDC; 10V + 0.02 x load	10...35 VDC / 12...24 VAC minimum 15 VDC for current outputs
Current consumption	20 mA / output	< 50 mA
Max. load current outputs	500 Ω @ 24 VDC	250 Ω
Min. load voltage outputs	N/A	1000 Ω
Electrical connections	Duct models: screw terminals and cable grip Space screw terminals	
Housing material	ABS	
Protection grade	Duct models: IP65 / NEMA 4	Space IP52 / NEMA5
Weight	200 g / 4.2 oz	
CE conformity	EN61000-6-4 EN61000-6-2	



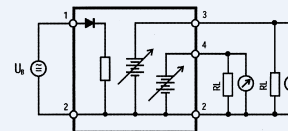
L12S/L13S



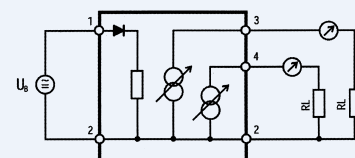
L12D / L13D



2 wire loop powered outputs



3 wire voltage outputs



3 wire current outputs