

# Relative Humidity and Temperature Transmitter

- Dual-range transmitter
- Removable sintered metal cap
- Quick removal for maintenance with minimal downtime
- Wall mounted



This solid-state transmitter plugs into its wall-mounted receptacle for on-site, continuous monitoring of relative humidity and temperature in critical or controlled environments.

The HI8666 has an excellent accuracy of  $\pm 2\%$  RH and  $\pm 1\%$  °C. Each 4-20 mA analog signal can be sent to remote panel meters, controllers or data acquisition systems. The signals are to be powered by separate external voltage sources.

Equipped with a removable sintered cap, the HI8666 sensor is well protected for the long run against the ingress of dust or unclean environments.

With the sintered cap installed, the sensor is protected from dust and debris prolonging the life of the sensor and the instrument and less maintenance is needed. However, the response time is slower. This is ideal in some applications, such as food and industrial applications where reliability rather than response time is the primary objective.

Specifications	HI8666	
RH	Range	0% (4 mA) to 100% (20 mA)
	Accuracy	$\pm 2\%$ (5% to 95% RH)
Temperature	Range	-20°C (4 mA) to 60°C (20 mA)
	Accuracy	$\pm 1\%$ FS
Additional Specifications	Response Time	6 seconds without sintered cap; 60 seconds with sintered cap
	Power Supply	10-30 Vdc
	Output Signal	4 to 20 mA
	Environment	0 to 60°C (32 to 140°F)
	Panel Cutout	73 x 42 mm (2.9 x 1.6")
	Dimensions	79 x 49 x 150 mm (3.1 x 1.9 x 5.9")
	Weight	150 g (5.3 oz.)
Ordering Information	<b>HI8666</b> is supplied with built-in RH sensor, protective sintered cap for RH sensor, mounting brackets and instructions.	

## Accessories

### Relative Humidity Probe

This sensor enables rapid response and high accuracy.

For rapid response, Hanna recommends a probe with a perforated cap. For industrial environments with dust and powders, a probe with a protective sintered cap is recommended.



#### HI70602 ABS Body with Perforated Cap

Probe	Cable length	Probe length	Connector	Sensors	Used with
<b>HI70602</b>	1 m (3.3')	170 mm (6.5")	DIN	RH (resistive) & °C	HI9564, HI9565



### Calibration

- HI7102** Calibration chamber for probes with sintered cap
- HI7111/P** LiCl saturation salts for use with the HI7102 low range humidity calibration (11.1%). (6 x 15g)
- HI7121/P** NaCl saturation salts for use with the HI7102 high range humidity calibration (75.4%). (6 x 33g)



### Meter Protection

- HI710008** Orange Shockproof rubber boot
- HI710007** Blue Shockproof rubber boot



### Probe Caps

- HI710011** RH probe protective sintered cap