

# HFM53



## Benefits

- Designed for HC2 and HC2A plug-in humidity-temperature probe
- Psychometric calculations
- Range of application electronics -40...60°C
- Marine-grade coated aluminium alloy housing

## Applications

- Meteorological towers
- Airport weather stations
- Building rooftops



### New housing

- Robust, Aluminium housing (IP65) with waterproof connector
- Wall mount version for outdoors
- Sunlight-resistant cable (3m)

### Outputs

- 3-wire version with short circuit tolerant
- 2 analog outputs are free selectable and scalable
- User configurable scaling limits

### Power supply

- 15 to 40 VDC
- 12 to 28 VAC

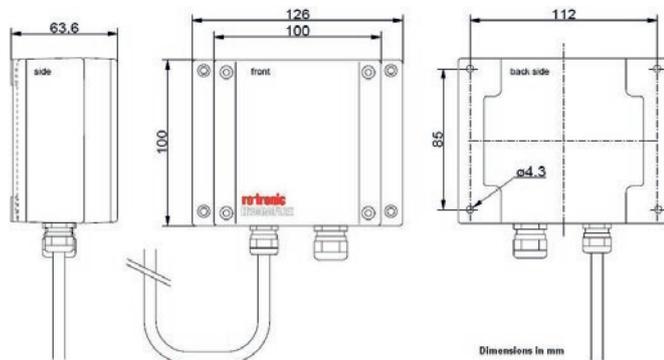
### Flexible choice of probes

- Connection of a wide range of probes possible
- Connection of simulators facilitates process validation



## TECHNICAL INFORMATION

### HFM53 Wall version (W)



	HFM53
Humidity probe	HygroClip 2, HygroClip 2 Advanced
Accuracy @ 23°C	Probe dependent
Initialization time	Typically, 3 sec.
Measurement range	Probe dependent
Range of applications	-40...60 °C, 0...100 % (non condensing)
Range of application cable	-10...70°C
Psychrometric calculations	All
Cable connections	1 x M16, screw terminals
Power supply	15...40VDC 12...28VAC
Circuit type	3-wire
Current Consumption	< 50 mA
Load per analog output	Max. 500Ω (current output) Min. 1k Ω (voltage output)
Interface	UART
Software	HygroSoft
Housing material	Aluminium die cast
Dimensions	125 x 100 x 60 mm
Cable Length	3 m
Weight	692 g
IP-Protection	IP65
Soldering material	Lead free (RoHS-Directive 2011/65/ EU)
Standards	CE Conformity 2014/30/EU
Conformity	GAMP5 and FDA 21 CFR Part 11

## PROBES FOR HYGROFLEX TRANSMITTERS

### Standard Climatic Probe

Range of application: -50...100 °C

Variants: Plastic and stainless-steel versions



HC2A-S  
HC2A-SH

Order Code	Type	Accuracy @ 23 °C	Application Range	Sensor Element	Long-term stability
HC2A-S	Standard probe, black	±0.8 %rh ±0.1 K	-50..100 °C 0...100 %rh	HYGROMER HT-1	<1 %rh per year with clean air
HC2A-S3	Meteo probe, white				
HC2A-SM	Steel probe				

### High-End Meteorological Probe

Range of application: -50...80 °C

Variant: Plastic with SPA-WM (wire mesh) filter



HC2A-S3A

Order Code	Type	Accuracy @ 23 °C	Application Range	Sensor Element	Long-term stability
HC2A-S3A	High-End Meteo*	±0.8 %rh ±0.1 K	-50..100 °C 0...100 %rh	HYGROMER HM1-SK	<1 %rh per year with clean air

\* The housing is full white to avoid any heating from sun radiation