

# HF52 / HF53 / HF55 Transmitters

## Ordering Codes

Transmitters with analog output signals: HF52 (2-wire, loop powered) and HF53 (3-wire)								
1	2	3	4	5	6	7	8	Circuit type, supply voltage and output signal type
HF520-								2-wire (loop powered), 10 to 28 VDC, 4...20 mA
HF531-								3-wire, 15 to 40 VDC or 12 to 28 VAC, 0...20 mA
HF532-								3-wire, 15 to 40 VDC or 12 to 28 VAC, 4...20 mA
HF533-								3-wire, 5 to 40 VDC or 5 to 28 VAC, 0...1 V
HF534-								3-wire, 10 to 40 VDC or 8 to 28 VAC, 0...5 V
HF535-								3-wire, 15 to 40 VDC or 12 to 28 VAC, 0...10 V
Installation type / Mechanical configuration								
	D							Duct mount (through wall)
	W							Wall mount
Parameters (analog outputs)								
		B				X	X	Humidity (0...100 %RH) and Temperature - see range below
		H	X	X		X	X	Humidity only (0...100 %RH)
		T				X	X	Temperature only - see range below
		1	X	X				Humidity & Dew / Frost point - see range below
		2	X	X				Humidity & Wet Bulb temperature (Tw) - see range below
		3	X	X				Humidity & Enthalpy (H) - see range below
		4	X	X				Humidity & Specific Humidity (Q) - see range below
		5	X	X				Humidity & Vapor Concentration (Dv) - see range below
		6	X	X				Humidity & Mixing Ratio (R) - (see range below)
		7	X	X				Humidity & Sat. Vapor Concentration (Dvs) - see range below
		8	X	X				Humidity & Partial Vapor Pressure (E) - see range below
		9	X	X				Humidity & Sat. Vapor Pressure (Ew) - see range below
		A						Temperature & Dew / Frost point - see range below
		C						Temperature & Wet Bulb temperature (Tw) - see range below
		D						Temperature & Enthalpy (H) - see range below
		E						Temperature & Specific Humidity (Q) - see range below
		F						Temperature & Vapor Concentration (Dv) - see range below
		G						Temperature & Mixing ratio (R) - see range below
		K						Temperature & Sat. Vapor Concentr. (Dvs) - see range below
		M						Temperature & Partial Vapor Pressure (E) - see range below
		N						Temperature & Sat. Vapor Pressure (Ew) - see range below
Temperature output ranges								
			1	X				0...50 °C
			3	X				-40...60 °C
			4	X				-30...70 °C
			6	X				0...100 °F
			7	X				0...200 °F



Transmitters with digital output: HF55						
1	2	3	4	5	6	Circuit type and supply voltage
HF556-						3-wire, 5 to 40 VDC or 12 to 28 VAC
						Installation type / Mechanical configuration
	D					Duct mount (through wall)
	W					Wall mount
						Parameters
		X				Humidity (RH) and Temperature (T)
		1				RH + T + Dew / Frost point
		2				RH + T + Wet Bulb temperature (Tw)
		3				RH + T + Enthalpy (H)
		4				RH + T + Specific Humidity (Q)
		5				RH + T + Vapor Concentration (Dv)
		6				RH + T + Mixing Ratio (R)
		7				RH + T + Sat. Vapor Concentration (Dvs)
		8				RH + T + Partial vapor pressure (E)
		9				RH + T + Sat. vapor pressure (Ew)
						Optional keypad and display
			D			Keypad and display with backlight
			X			No keypad and display
						Cable fittings and digital interface
				5		1x M16 cable grip, RS-485 interface
				6		1x 1/2" conduit adapter, RS-485 interface
				7		1x M16 cable grip, USB + RS-485
				8		1x 1/2" conduit adapter, USB + RS-485
				9		1x M16 cable grip, Ethernet + RS-485
				A		1x 1/2" conduit adapter, Ethernet + RS-485
				B		1x M16 cable grip, Ethernet wireless + RS-485
				C		1x 1/2" conduit adapter, Ethernet wireless + RS-485
						Unit system
					M	Metric
					E	English

**Notes:**

- The enclosure of all models with digital interface is designed to be installed in the horizontal position
- The M16 cable grip is located at the bottom of the enclosure
- The 1/2" conduit adapter is located on top of the enclosure
- The enclosure of all models with digital interface is designed to be installed in the horizontal position
- The factory default setting for the dew point calculation is the frost point below freezing
- The probe used with the HF5 must be ordered separately. For technical information on the different probe models, see document **E-M-HC2 Probes-V1**.