HF52 / HF53 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
			M	**E**						No temperature output – calc. parameter metric
			E	**N**						No temperature output – calc. parameter English
			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
			8	**X**						0…300°F
			9	**X**						-50…200 °F
			S	**T**						Custom range (specify when ordering)
										Optional keypad and display
					D					Keypad and display (HF52: no backlight – HF53: w. backlight)
					X					No keypad and display
										Cable fittings (analog outputs only)
						1				1x M16 cable grip (horizontal mounting)
						2				1x M16 cable grip (vertical mounting - type D w/o display)
						3				1x ½" conduit adapter (horizontal mounting)
						4				1x ½" conduit adapter (vertical mounting - type D w/o display)
										Cable fittings (HF53 w. analog outputs & digital interface)
						5				1x M16 cable grip, RS-485 (horizontal mounting)
						6				1x ½" conduit adapter, RS-485 (horizontal mounting)
						7				1x M16 cable grip, USB & RS-485 (horizontal mounting)
						8				1x ½" conduit adapter, USB & RS-485 (horizontal mounting)
										Calculated parameter ranges
							1	**X**		0…20
							2	**X**		0…25
							3	**X**		0…50
							4	**X**		0…100
							5	**X**		0…200
							6	**X**		0...500
							7	**X**		0...1000
							8	**X**		-20...20
							9	**X**		-25...25
							A	**X**		-40…40
							B	**X**		-50…50
							C	**X**		-50…100
							D	**X**		-50...200
							S	**C**		Custom range (specify when ordering)
										Special relative humidity ranges
									S	Custom range (specify when ordering)

Notes:

- The HF53 can be ordered with both analog outputs and digital interface (see “cable fittings” in the table)
- The enclosure of all models with the optional display and keypad and / or with a digital interface is designed to be installed in the horizontal position
- The M16 cable grip is located at the bottom of the enclosure
- The ½” conduit adapter is located on top of the enclosure
- The calculated parameter uses the same unit system (metric or English) as the temperature output.
- The factory default setting for the dew point calculation is the frost point below freezing
- Custom range: be sure to clearly specify the desired range at the time of the order. When a special range has been ordered, the letters ST, SC or S are used in columns 4, 7 or 8 in the above table. These generic codes will be replaced with a specific code only for quantity and repeat orders
- Use column 4 to specify the unit system (M or E) when temperature is not one of the analog outputs
- 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**.

HF55 Transmitters Ordering Codes

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 ½" 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**.