



S+S REGELTECHNIK



HYGRASREG® HYGRASGARD®

HUMIDITY SENSORS/CONTROL SWITCHES
DIGITAL HUMIDITY SENSORS WITH
INTEGRATED TEMPERATURE SENSOR

RELIABLE PROTECTION
AGAINST HUMIDITY

PRODUCT RANGE 2022

5

JAHRE GARANTIE
★★★★★
YEARS WARRANTY

MADE IN GERMANY



FÜHLBARE PRÄZISION

HYGRASGARD® ON-WALL SENSORS



HYGRASGARD® AFF-SD
compact form,
without display

172,16 €



HYGRASGARD® AFF-SD
compact form,
with display

220,67 €



HYGRASGARD® AFF
without display

181,26 €



HYGRASGARD® AFF
with display

229,75 €

HYGRASGARD® AFF-SD		On-wall humidity sensors, compact form ($\pm 2.0\%$), <i>Standard</i>				
HYGRASGARD® AFTF-SD		On-wall humidity and temperature sensors, compact form ($\pm 2.0\%$), <i>Standard</i>				
Type / WG01B	Measuring Range	Output	Display	Item No.	Price	
	Humidity	Humidity	Housing			
	Temperature	Temperature				
AFF-SD	($\pm 2.0\%$)			IP 65 (compact form)		
AFF-SD-I	0...100 % r. H.	4...20 mA	T1	1201-1122-0000-100	172,16 €	
AFF-SD-I LCD	0...100 % r. H.	4...20 mA	T1 ■	1201-1122-0200-000	220,67 €	
AFF-SD-U	0...100 % r. H.	0-10 V	T1	1201-1121-0000-100	172,16 €	
AFF-SD-U LCD	0...100 % r. H.	0-10 V	T1 ■	1201-1121-0200-000	220,67 €	
AFTF-SD	($\pm 2.0\%$)			IP 65 (compact form)		
AFTF-SD-I	0...100 % r. H.	4...20 mA	T1	1201-1122-1000-100	175,80 €	
	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C	4...20 mA				
AFTF-SD-I LCD	0...100 % r. H.	4...20 mA	T1 ■	1201-1122-1200-100	224,29 €	
AFTF-SD-U	0...100 % r. H.	0-10 V	T1	1201-1121-1000-100	175,80 €	
AFTF-SD-U LCD	0...100 % r. H.	0-10 V	T1 ■	1201-1121-1200-100	224,29 €	
	(4x as above)					
	(4x as above)					
	(4x as above)					
HYGRASGARD® AFF		On-wall humidity sensors ($\pm 2.0\%$), <i>Standard</i>				
HYGRASGARD® AFTF		On-wall humidity and temperature sensors ($\pm 2.0\%$), <i>Standard</i>				
Type / WG02	Measuring Range	Output	Display	Item No.	Price	
	Humidity	Humidity	Housing			
	Temperature	Temperature				
AFF	($\pm 2.0\%$)			IP 65		
AFF-I	0...100 % r. H.	4...20 mA	T2	1201-7112-0000-000	181,26 €	
	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C					
AFF-I LCD	0...100 % r. H.	4...20 mA	T2 ■	1201-7112-0400-000	229,75 €	
AFF-U	0...100 % r. H.	0-10 V	T2	1201-7111-0000-000	181,26 €	
AFF-U LCD	0...100 % r. H.	0-10 V	T2 ■	1201-7111-0400-000	229,75 €	
AFTF	($\pm 2.0\%$)			IP 65		
AFTF-I	0...100 % r. H.	4...20 mA	T2	1201-7112-1000-000	198,84 €	
AFTF-I LCD	0...100 % r. H.	4...20 mA	T2 ■	1201-7112-1400-000	247,33 €	
AFTF-U	0...100 % r. H.	0-10 V	T2	1201-7111-1000-000	198,84 €	
AFTF-U LCD	0...100 % r. H.	0-10 V	T2 ■	1201-7111-1400-000	247,33 €	
AFTF-U xx	($\pm 2.0\%$)			IP 65		
AFTF-U xx	0...100 % r. H.	0-10 V		see catalog	from 199,45 €	
	(4x as above)	0-10 V + xx				
xx = passive sensor, e.g. Pt100, Pt1000, Ni, LM235Z, NTC						
Housing: T1 = Tyr 1 / T2 = Tyr 2						



HYGRASGARD® AFF-20

229,75 €



HYGRASGARD® AFF-20
with display

278,25 €



HYGRASGARD® AFF-25
pluggable measuring head

339,47 €



HYGRASGARD® AFF-25
pluggable measuring head,
with display

386,91 €

Depending on the series, **HYGRASGARD® on-wall and duct sensors** are available in **Tyr 1** (compact) or **Tyr 2** (wide) housings with or without display. They are supplied complete with a sinter filter in plastic (standard). A metal sinter filter in stainless steel can be ordered as optional accessory.

The duct sensor types feature our patented **PLEUROFORM™** multi-chamber duct pipe (optional protective version in stainless steel available upon request), and are supplied including a mounting flange for stable fitting.



HYGRASGARD® AFF-20 HYGRASGARD® AFTF-20		On-wall humidity sensors ($\pm 1.8\%$), <i>Premium</i> On-wall humidity and temperature sensors ($\pm 1.8\%$), <i>Premium</i>						
Type / WG02	Measuring Range		Output		Display	Item No.	Price	
	Humidity	Temperature	Humidity	Temperature	Housing			
AFF-20	($\pm 1,8\%$)					IP 65		
AFF-20-I	0...100% r. H.	–	4... 20 mA	–	T2	1201-7112-0000-201	229,75 €	
AFF-20-I LCD	0...100% r. H.	–	4... 20 mA	–	T2	■ 1201-7112-0400-201	278,25 €	
AFF-20-U	0...100% r. H.	–	0-10 V	–	T2	1201-7111-0000-201	229,75 €	
AFF-20-U LCD	0...100% r. H.	–	0-10 V	–	T2	■ 1201-7111-0400-201	278,25 €	
AFTF-20	($\pm 1,8\%$)					IP 65		
AFTF-20-I	0...100% r. H.	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C	4... 20 mA	4... 20 mA	T2	1201-7112-1000-201	252,22 €	
AFTF-20-I LCD	0...100% r. H.	(4x as above)	4... 20 mA	4... 20 mA	T2	■ 1201-7112-1400-201	298,30 €	
AFTF-20-U	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2	1201-7111-1000-201	252,22 €	
AFTF-20-U LCD	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2	■ 1201-7111-1400-201	298,30 €	
HYGRASGARD® AFF-25 HYGRASGARD® AFTF-25		On-wall humidity sensors, pluggable ($\pm 1.8\%$), <i>Deluxe</i> On-wall humidity and temperature sensors, pluggable ($\pm 1.8\%$), <i>Deluxe</i>						
Type / WG02	Measuring Range		Output		Display	Item No.	Price	
	Humidity	Temperature	Humidity	Temperature	Housing			
AFF-25	($\pm 1,8\%$)					IP 65 (pluggable)		
AFF-25-I	0...100% r. H.	–	4... 20 mA	–	T2	1201-7132-0000-101	339,47 €	
AFF-25-I LCD	0...100% r. H.	–	4... 20 mA	–	T2	■ 1201-7132-0400-101	386,91 €	
AFF-25-U	0...100% r. H.	–	0-10 V	–	T2	1201-7131-0000-101	339,47 €	
AFF-25-U LCD	0...100% r. H.	–	0-10 V	–	T2	■ 1201-7131-0400-101	386,91 €	
AFTF-25	($\pm 1,8\%$)					IP 65 (pluggable)		
AFTF-25-I	0...100% r. H.	(4x as above)	4... 20 mA	4... 20 mA	T2	1201-7132-1000-101	360,08 €	
AFTF-25-I LCD	0...100% r. H.	(4x as above)	4... 20 mA	4... 20 mA	T2	■ 1201-7132-1400-101	407,53 €	
AFTF-25-U	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2	1201-7131-1000-101	360,08 €	
AFTF-25-U LCD	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2	■ 1201-7131-1400-101	407,53 €	
Housing: T2 = Tvr 2								

Housing: T2 = Tyr 2

HYGRASGARD® DUCT SENSORS



HYGRASGARD®
AFTF-Modbus-T3
without display

201,05 €



HYGRASGARD®
AFTF-Modbus-T3
with display

253,44 €



HYGRASGARD®
KFTF-Modbus-T3

199,18 €



HYGRASGARD®
KFTF-Modbus-T3
with display

251,56 €

Thanks to their various configuration possibilities, our **HYGRASGARD® Modbus** as well as our **AAVTF / KAVTF** humidity sensors can be used to solve a wide range of measuring and control tasks with only one single device. They measure both relative humidity and ambient temperature. Based on these measured values, **further parameters** are calculated and can also be set for display.

HYGRASGARD® AFTF-Modbus-T3		On-wall-humidity- and temperature sensors (± 2.0 %)						
HYGRASGARD® KFTF-Modbus-T3		Duct humidity- and temperature sensors (± 2.0 %)						
HYGRASGARD® KFTF-20-Modbus-T3		Duct humidity- and temperature sensors (± 1.8 %)						
Type / WG01	Measuring Range		Output		Display	Item No.	Price	
	Humidity	Temperature			Housing			
AFTF-Modbus-T3	(± 2,0 %)					IP 65		
AFTF-Modbus-T3	0...100% r. H. (default) 0...80 g / kg (MV) 0...80 g / m³ (a.F.) 0...85 kJ / kg (ENT.) -20...+80 °C (TP)	-35...+80 °C	RS485		T3	1201-12C6-1000-000	201,05 €	
AFTF-Modbus-T3 LCD	(5x as above)	-35...+80 °C	RS485		T3	1201-12C6-1400-000	253,44 €	
KFTF-Modbus-T3	(± 2,0 %)					IP 65		
KFTF-Modbus-T3	(5x as above)	-35...+80 °C	RS485		T3	1201-32C6-1000-029	199,18 €	
KFTF-Modbus-T3 LCD	(5x as above)	-35...+80 °C	RS485		T3	1201-32C6-1400-029	251,56 €	
KFTF-20-Modbus-T3	(± 1,8 %)					IP 65		
KFTF-20-Modbus-T3	(5x as above)	-35...+80 °C	RS485		T3	1201-32C6-1000-030	260,37 €	
KFTF-20-Modbus-T3 LCD	(5x as above)	-35...+80 °C	RS485		T3	1201-32C6-1400-030	392,27 €	
HYGRASGARD® AAVTF		On-wall outdoor humidity sensors (± 2.0 %)						
HYGRASGARD® KAVTF		Duct outdoor humidity sensors (± 2.0 %)						
Type / WG01	Measuring Range		Output		Display	Item No.	Price	
	Humidity (switchable)	Temperature	Humidity	Temperature	Housing			
AAVTF	(± 2,0 %)					IP 65		
AAVTF-I	0...100% r. H. (default) 0...50 g / kg (MV) 0...80 g / kg (MV) 0...50 g / m³ (a.F.) 0...80 g / m³ (a.F.) 0...+50 °C (TP) -20...+80 °C (TP) 0...85 kJ / kg (ENT.)	0...+50 °C (default) -20...+80 °C -35...+75 °C -35...+35 °C	4...20 mA	4...20 mA	T1	1201-1162-6000-028	195,79 €	
AAVTF-I LCD	(8x as above)	(4x as above)	4...20 mA	4...20 mA	T1	1201-1162-6200-028	243,26 €	
AAVTF-U	(8x as above)	(4x as above)	0-10 V	0-10 V	T1	1201-1161-6000-028	195,79 €	
AAVTF-U LCD	(8x as above)	(4x as above)	0-10 V	0-10 V	T1	1201-1161-6200-028	243,26 €	
KAVTF	(± 2,0 %)					IP 65		
KAVTF-I	(8x as above)	(4x as above)	4...20 mA	4...20 mA	T1	1201-3162-6000-029	178,51 €	
KAVTF-I LCD	(8x as above)	(4x as above)	4...20 mA	4...20 mA	T1	1201-3162-6200-029	236,11 €	
KAVTF-U	(8x as above)	(4x as above)	0-10 V	0-10 V	T1	1201-3161-6000-029	178,51 €	
KAVTF-U LCD	(8x as above)	(4x as above)	0-10 V	0-10 V	T1	1201-3161-6200-029	236,11 €	
Extra charge:	Other non-standard ranges optional						142,35 €	
							Housing: T1 = Tvr 1 / T3 = Tvr 3	

Housing: T1 = Tyr 1 / T3 = Tyr 3



HYGRASGARD® KFF-SD
with snap-on lid

154,58 €

HYGRASGARD® KFF
without display

166,10 €

HYGRASGARD® KFF
with display

214,60 €

HYGRASGARD® KFF-20
with display

278,25 €

HYGRASGARD® KFF-SD	Humidity sensors ($\pm 2,0\%$) with snap-on lid, <i>Standard</i>
HYGRASGARD® KFTF-SD	Humidity and temperature sensors ($\pm 2,0\%$) with snap-on lid, <i>Standard</i>

Type / WG01	Measuring Range Humidity	Temperature	Output Humidity	Temperature	Display Housing	Item No.	Price
KFF-SD	($\pm 2,0\%$)					IP 43 (snap-on lid)	
KFF-SD-I	0...100 % r. H.	–	4...20 mA	–	T1	1201-3182-0000-029	154,58 €
KFF-SD-U	0...100 % r. H.	–	0-10 V	–	T1	1201-3181-0000-029	154,58 €
KFTF-SD	($\pm 2,0\%$)					IP 43 (snap-on lid)	
KFTF-SD-I	0...100 % r. H.	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C	4...20 mA	4...20 mA	T1	1201-3182-1000-029	158,82 €
KFTF-SD-U	0...100 % r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-3181-1000-029	158,82 €

HYGRASGARD® KFF	Humidity sensors ($\pm 2,0\%$), <i>Standard</i>
HYGRASGARD® KFTF	Humidity and temperature sensors ($\pm 2,0\%$), <i>Standard</i>

Type / WG01	Measuring Range Humidity	Temperature	Output Humidity	Temperature	Display Housing	Item No.	Price
KFF	($\pm 2,0\%$)					IP 65	
KFF-I	0...100 % r. H.	–	4...20 mA	–	T1	1201-3112-0000-029	166,10 €
KFF-I LCD	0...100 % r. H.	–	4...20 mA	–	T1 ■	1201-3112-0200-029	214,60 €
KFF-U	0...100 % r. H.	–	0-10 V	–	T1	1201-3111-0000-029	166,10 €
KFF-U LCD	0...100 % r. H.	–	0-10 V	–	T1 ■	1201-3111-0200-029	214,60 €
KFTF	($\pm 2,0\%$)					IP 65	
KFTF-I	0...100 % r. H.	(4x as above)	4...20 mA	4...20 mA	T1	1201-3112-1000-029	170,34 €
KFTF-I LCD	0...100 % r. H.	(4x as above)	4...20 mA	4...20 mA	T1 ■	1201-3112-1200-029	218,85 €
KFTF-U	0...100 % r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1000-029	170,34 €
KFTF-U LCD	0...100 % r. H.	(4x as above)	0-10 V	0-10 V	T1 ■	1201-3111-1200-029	218,85 €
KFTF-U xx	($\pm 2,0\%$)			active / passive		IP 65	
KFTF-U xx	0...100 % r. H.	(4x as above)	0-10 V	0-10 V + xx	T1	see catalog	from 177,01 €

xx = passive sensor, z.B. Pt100, Pt1000, Ni, LM235Z, NTC

HYGRASGARD® KFF-20	Humidity sensors ($\pm 1,8\%$), <i>Premium</i>
HYGRASGARD® KFTF-20	Humidity and temperature sensors ($\pm 1,8\%$), <i>Premium</i>

Type / WG02	Measuring Range Humidity	Temperature	Output Humidity	Temperature	Display Housing	Item No.	Price
KFF-20	($\pm 1,8\%$)					IP 65	
KFF-20-I	0...100 % r. H.	–	4...20 mA	–	T1	1201-3112-0000-030	229,75 €
KFF-20-I LCD	0...100 % r. H.	–	4...20 mA	–	T2 ■	1201-8112-0400-030	278,25 €
KFF-20-U	0...100 % r. H.	–	0-10 V	–	T1	1201-3111-0000-030	229,75 €
KFF-20-U LCD	0...100 % r. H.	–	0-10 V	–	T2 ■	1201-8111-0400-030	278,25 €
KFTF-20	($\pm 1,8\%$)					IP 65	
KFTF-20-I	0...100 % r. H.	(4x as above)	4...20 mA	4...20 mA	T1	1201-3112-1000-030	252,22 €
KFTF-20-I LCD	0...100 % r. H.	(4x as above)	4...20 mA	4...20 mA	T2 ■	1201-8112-1400-030	298,30 €
KFTF-20-U	0...100 % r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1000-030	252,22 €
KFTF-20-U LCD	0...100 % r. H.	(4x as above)	0-10 V	0-10 V	T2 ■	1201-8111-1400-030	298,30 €

Housing: T1 = Tyr 1 / T2 = Tyr 2

HYGRASGARD® SHOWCASE SENSOR PENDULUM ROOM SENSORS

HYGRASGARD® RPFF-SD
without housing

148,69 €

HYGRASGARD® RPFF
without display

189,13 €

HYGRASGARD® RPFF
with display

236,59 €

The pendulum room sensor **HYGRASGARD® RPFF / RPFTF** is appropriate for ceiling and duct installation, or for integrating it into equipment and is used in non-aggressive dust-free environments in refrigeration, air conditioning and clean room technology, technical rooms, hotels and convention centres.

The showcase sensor **HYGRASGARD® VFF / VFTF** is specifically designed for installation in ceilings, walls, inside showcases or display cabinets in museums, galleries, cinemas or lecture halls or laboratories. The measuring element is contained inside a stainless steel probe and its low height (approx. 2.5 mm) makes it barely noticeable.

HYGRASGARD® VFF HYGRASGARD® VFTF		Showcase humidity sensor, pluggable (±2,0%), <i>Premium</i> Showcase humidity- and temperature sensor, pluggable (±2,0%), <i>Premium</i>					
Type / WG02	Measuring Range		Output		Display	Item No.	Price
	Humidity	Temperature	Humidity	Temperature	Housing		
VFF	(±2,0%)					IP 65 (pluggable)	
VFF-I	0...100 % r. H.	–	4...20 mA	–	T1	1201-6122-0000-100	440,37 €
VFF-I LCD	0...100 % r. H.	–	4...20 mA	–	T1 ■	1201-6122-0200-100	488,93 €
VFF-U	0...100 % r. H.	–	0-10 V	–	T1	1201-6121-0000-100	440,37 €
VFF-U LCD	0...100 % r. H.	–	0-10 V	–	T1 ■	1201-6121-0200-100	488,93 €
VFTF	(±2,0%)					IP 65 (pluggable)	
VFTF-I	0...100 % r. H.	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C	4...20 mA	4...20 mA	T1	1201-6122-1000-100	444,32 €
VFTF-I LCD	0...100 % r. H.	(4 x as above)	4...20 mA	4...20 mA	T1 ■	1201-6122-1200-100	493,20 €
VFTF-U	0...100 % r. H.	(4 x as above)	0-10 V	0-10 V	T1	1201-6121-1000-100	444,32 €
VFTF-U LCD	0...100 % r. H.	(4 x as above)	0-10 V	0-10 V	T1 ■	1201-6121-1200-100	493,20 €
HYGRASGARD® VFTF-Modbus-T3		Showcase humidity and temperature sensor (±2.0%), <i>Premium</i>					
Type / WG01	Measuring Range		Output		Display	Item No.	Price
	Humidity	Temperature			Housing		
VFTF-Modbus-T3	(±2,0%)					IP 65 (pluggable)	
VFTF-Modbus-T3	0...100 % r. H. 0...80 g / kg 0...80 g / m³ 0...85 kJ / kg –20...+80 °C	(default) (MV) (a.F.) (ENT.) (TP)	–35...+80 °C	RS485	T3	1201-6256-1000-000	485,81 €
VFTF-Modbus-T3 LCD	(5 x as above)		–35...+80 °C	RS485	T3 ■	1201-6256-1400-000	541,36 €

HYGRASGARD® RPFF-25
pluggable measuring head

394,02 €

HYGRASGARD® RPFF-25
pluggable measuring head,
with display

441,47 €



HYGRASGARD®
RPFTF-Modbus-T3
without display

282,21 €



HYGRASGARD®
RPFTF-Modbus-T3
with display

334,31 €

HYGRASGARD® RPFF-SD Pendulum room humidity sensors ($\pm 2,0\%$), *Standard*
HYGRASGARD® RPFF Pendulum room humidity sensors ($\pm 2,0\%$), *Premium*
HYGRASGARD® RPFTF Pendulum room humidity and temperature sensors ($\pm 2,0\%$), *Premium*
HYGRASGARD® RPFF-25 Pendulum room humidity sensors, *pluggable* ($\pm 1,8\%$), *Deluxe*
HYGRASGARD® RPFTF-25 Pendulum room humidity and temperature sensors, *pluggable* ($\pm 1,8\%$), *Deluxe*

Type	Measuring Range	Output	Display	Item No.	Price
	Humidity	Temperature	Humidity	Housing	
RPFF-SD / WG01	($\pm 2,0\%$)		IP 65		
RPFF-SD-I	0...100% r. H.	–	4...20 mA	–	1201-1172-0000-150 148,69 €
RPFF / WG01	($\pm 2,0\%$)		IP 65		
RPFF-I	0...100% r. H.	–	4...20 mA	–	T1 1201-1172-0000-100 189,13 €
RPFF-U	0...100% r. H.	–	0-10 V	–	T1 1201-1171-0000-100 189,13 €
RPFF-xx LCD	0...100% r. H.	–	–	–	T1 ■ Extra charge 47,46 €
RPFTF / WG01	($\pm 2,0\%$)		IP 65		
RPFTF-I	0...100% r. H.	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C	4...20 mA	4...20 mA	T1 1201-1172-1000-100 193,37 €
RPFTF-U	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T1 1201-1171-1000-100 193,37 €
RPFTF-xx LCD	0...100% r. H.	(4 x as above)	–	–	T1 ■ Extra charge 47,46 €
RPFF-25 / WG02	($\pm 1,8\%$)		IP 65 (pluggable)		
RPFF-25-I	0...100% r. H.	–	4...20 mA	–	T2 1201-7122-0000-100 394,02 €
RPFF-25-I LCD	0...100% r. H.	–	4...20 mA	–	T2 ■ 1201-7122-0400-100 441,47 €
RPFF-25-U	0...100% r. H.	–	0-10 V	–	T2 1201-7121-0000-100 394,02 €
RPFF-25-U LCD	0...100% r. H.	–	0-10 V	–	T2 ■ 1201-7121-0400-100 441,47 €
RPFTF-25 / WG02	($\pm 1,8\%$)		IP 65 (pluggable)		
RPFTF-25-I	0...100% r. H.	(4 x as above)	4...20 mA	4...20 mA	T2 1201-7122-1000-100 414,64 €
RPFTF-25-I LCD	0...100% r. H.	(4 x as above)	4...20 mA	4...20 mA	T2 ■ 1201-7122-1400-100 462,09 €
RPFTF-25-U	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T2 1201-7121-1000-100 414,64 €
RPFTF-25-U LCD	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T2 ■ 1201-7121-1400-100 462,09 €
HYGRASGARD® RPFTF-Modbus-T3 Pendulum room humidity and temperature sensors ($\pm 2,0\%$)					
HYGRASGARD® RPFTF-20-Modbus-T3 Pendulum room humidity and temperature sensors ($\pm 1,8\%$)					
Type / WG01	Measuring Range	Output	Display	Item No.	Price
	Humidity	Temperature	Humidity	Housing	
RPFTF-Modbus-T3	($\pm 2,0\%$)		IP 65		
RPFTF-Modbus-T3	0...100% r. H. 0...80 g/kg 0...80 g/m³ 0...85 kJ/kg –20...+80 °C	(default) (MV) (a.F.) (ENT.) (TP)	–35...+80 °C	RS485	T3 1201-6246-1000-000 282,21 €
RPFTF-Modbus-T3 LCD	(5 x as above)	–35...+80 °C	RS485	T3 ■	1201-6246-1400-000 334,31 €
RPFTF-20-Modbus-T3	($\pm 1,8\%$)		IP 65		
RPFTF-20-Modbus-T3	(5 x as above)	–35...+80 °C	RS485	T3	1201-6246-1000-001 338,55 €
RPFTF-20-Modbus-T3 LCD	(5 x as above)	–35...+80 °C	RS485	T3 ■	1201-6246-1400-001 391,18 €

Housing: T1 = Tyr 1 / T2 = Tyr 2 / T3 = Tyr 3

HYGRASREG® MECHANICAL

For use in dust-free,
non-polluted and
non-aggressive air



HYGRASREG® RH-2
with external control dial

79,05 €



HYGRASREG® RHT
with external control dial

158,22 €



HYGRASREG® KH-10
with external control dial

218,44 €

The mechanical and electronic hygrostats from S+S are designed for control and/or monitoring of relative humidity in residential, office, IT and manufacturing environments, in laboratories, indoor swimming pools and greenhouses as well as in climate and control cabinets, ventilation and air conditioning ducts, humidifying and dehumidifying systems.

As a two-position microswitch or room hygrostat including temperature controller, respectively, **HYGRASREG® RH-2** and **RHT** are equipped with a humidity measuring element made of plastic fibers.

In addition, the **HYGRASREG® RHT** room controller has bi-metal temperature sensor.

The **HYGRASREG® RH-2** room and the **HYGRASREG® KH-10** duct devices can also be used as minimum guards or maximum hygrostats.

HYGRASREG® MECHANICAL					
Type	Setting Range	Features	Setting	Item No.	Price
RH-2 / WG01				IP 30	
RH-2	25...95 % r. H.	1x Changeover contact	external	1202-40C0-0010-000	79,05 €
RH-2 U	25...95 % r. H.	1x Changeover contact	internal	1202-40C0-0020-000	81,46 €
RHT / WG02				IP 30	
RHT-1	35...100 % r. H., +10...+35 °C	Main switch	external	1202-4010-0000-000	158,22 €
KH-10 / WG01				IP 65	
KH-10	35...100 % r. H.	–	external	1202-3012-0010-000	218,44 €
KH-10 U	35...100 % r. H.	Setpoint adjuster covered	internal	1202-3012-0020-000	216,12 €

HYGRASREG® ELECTRONIC



HYGRASREG® AHT-30
with display and
plastic sinter filter
224,59 €

HYGRASREG® AH-40
with display and
plastic sinter filter
172,77 €

HYGRASREG® KHT-30
with display and
plastic sinter filter
224,59 €

HYGRASREG® KH-40
with display and
plastic sinter filter
173,91 €

HYGRASREG® RHT-30
with display and
external setting
188,57 €

Our new **HYGRASREG® AHT-30 / KHT-30 / RHT-30** electronic on-wall, duct and room hygro-thermostats provide two continuous and two switched outputs for up to four different operating modes with adjustable switching thresholds. The spacious multi-line display in **Tyr 2** housing alternates between actual humidity and temperature every 3 seconds. A durable, digital humidity sensor with integrated temperature sensor ensures a measuring accuracy of $\pm 3\%$ and $\pm 0.2\text{K}$.

All devices – including the **HYGRASREG® AH-40 / KH-40** single-step hygrostats in compact **Tyr 1** housing – feature our innovative slotted/cross head bolting system with integrated arrest and spring geometry for spray water protection (IP65).

Standard delivery includes a plastic sinter filter.

Optionally, the devices can also be supplied or retrofitted with a metal sinter filter.

HYGRASREG®		ELECTRONIC					
Type	Setting Range	Features	Output	Setting	Display	Item No.	Price
AHT-30 / WG02							IP 65
AHT-30W-I LCD	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 4...20 mA	internal	■	1202-7127-2421-000	224,59 €
AHT-30W-U LCD	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 0-10 V	internal	■	1202-7127-1421-000	224,59 €
AH-40 / WG01							IP 65
AH-40W LCD	5...95 % r. H.	1x Changeover contact	–	internal	■	1202-1065-0221-000	172,77 €
KHT-30 / WG02							IP 65
KHT-30W-I LCD	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 4...20 mA	internal	■	1202-8127-2421-000	224,59 €
KHT-30W-U LCD	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 0-10 V	internal	■	1202-8127-1421-000	224,59 €
KH-40 / WG01							IP 65
KH-40W LCD	5...95 % r. H.	1x Changeover contact	–	internal	■	1202-3065-0221-000	173,91 €
RHT-30 / WG02							IP 30
RHT-30W U	5...95 % r. H., +5...+45 °C	2x Changeover contact	1x 0-10 V	internal		1202-4077-1021-200	173,38 €
RHT-30W	5...95 % r. H., +5...+45 °C	2x Changeover contact	1x 0-10 V	external		1202-4077-1011-200	175,92 €
RHT-30W LCD	5...95 % r. H., +5...+45 °C	2x Changeover contact	1x 0-10 V	external	■	1202-4077-1211-200	188,57 €

HYGRASGARD®

ROOM SENSORS

ROOM CONTROL UNITS



HYGRASGARD® FSM-U

228,09 €



HYGRASGARD® RFF

113,25 €



HYGRASGARD® RFTF-Modbus
with display
and potentiometer

227,32 €



HYGRASGARD® RFTF-Modbus
with LED-display,
push-buttons, rotary switches
and potentiometer

291,16 €

HYGRASGARD® Room, humidity and temperature sensors or measuring transducers

Type	Measuring Range Humidity	Temperature	Output Humidity	Temperature	Display Housing	Item No.	Price
RFF / RFTF (WG01)	(± 2,0%)					IP 30, on-wall	
RFF-I	0...100% r. H.	–	4...20 mA	–	B1	1201-41A2-0000-000	113,25 €
RFF-I LCD	0...100% r. H.	–	4...20 mA	–	B1 ■	1201-41A2-0200-000	166,10 €
RFF-U	0...100% r. H.	–	0-10 V	–	B1	1201-41A1-0000-000	113,25 €
RFF-U LCD	0...100% r. H.	–	0-10 V	–	B1 ■	1201-41A1-0200-000	166,10 €
RFTF-I	0...100% r. H.	0...+50 °C	4...20 mA	4...20 mA	B1	1201-41A2-1000-000	116,77 €
RFTF-I LCD	0...100% r. H.	0...+50 °C	4...20 mA	4...20 mA	B1 ■	1201-41A2-1200-000	169,73 €
RFTF-U	0...100% r. H.	0...+50 °C	0-10 V	0-10 V	B1	1201-41A1-1000-000	116,77 €
RFTF-U LCD	0...100% r. H.	0...+50 °C	0-10 V	0-10 V	B1 ■	1201-41A1-1200-000	169,73 €
RFTF-U xx	0...100% r. H.	0...+50 °C	0-10 V	0-10 V + xx	B1	see catalog	from 155,50 €
RFTF-U xx LCD	0...100% r. H.	0...+50 °C	0-10 V	0-10 V + xx	B1 ■	see catalog	extra charge 47,46 €
xx = passive sensor, e.g. Pt100, Pt1000, Ni, LM235Z, NTC							
FSFM / FSFTM (WG02)	(± 3,0%)					IP 20, in-wall	
FSFM-U	0...100% r. H.	–	0-10 V	–		1201-9121-0000-162	228,09 €
FSFTM-U	0...100% r. H.	0...+50 °C	0-10 V	0-10 V		1201-9121-1000-162	234,86 €

HYGRASGARD® Room, humidity and temperature sensors or measuring transducers with Modbus connection

Type	Measuring Range		Temperature	Output	Display Housing	Item No.	Price
RTM 1-Modbus (WG01)	(± 2,0%)					IP 30, on-wall	
RTM1-Modbus	–		0...+50 °C	RS485	B1	1101-42A6-0000-000	109,73 €
RTM1-Modbus LCD	–		0...+50 °C	RS485	B1 	1101-42A6-2000-000	162,48 €
RTM1-Modbus P	–		0...+50 °C	RS485	B1	1101-42A6-0001-005	144,28 €
RTM1-Modbus P LCD	–		0...+50 °C	RS485	B1 	1101-42A6-2001-005	259,83 €
RFTF-Modbus-xx (WG01)	(± 2,0%)					IP 30, on-wall	
RFTF-Modbus P	0...100 % r. H. 0...80 g / kg 0...80 g / m³ 0...85 kJ / kg –20...+80 °C	(default) (MV) (a.F.) (ENT.) (TP)	0...+50 °C	RS485	B2	1201-42B6-6001-005	190,95 €
RFTF-Modbus P LCD	(5 x as above)		0...+50 °C	RS485	B2 	1201-42B6-7001-005	227,32 €
RFTF-Modbus P 5L	(5 x as above)		0...+50 °C	RS485		1201-42B6-6119-005	246,23 €
RFTF-Modbus P 5L LCD	(5 x as above)		0...+50 °C	RS485	B2 	1201-42B6-7119-005	282,60 €
RFTF-Modbus P D5	(5 x as above)		0...+50 °C	RS485		1201-42B6-6012-841	219,75 €
RFTF-Modbus P D5 5L	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-6120-841	277,33 €
RFTF-Modbus P T D5 5L	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-6121-841	291,16 €
RFTF-Modbus P T	(5 x as above)		0...+50 °C	RS485		1201-42B6-6047-005	202,47 €
RFTF-Modbus P T LCD	(5 x as above)		0...+50 °C	RS485	B2 	1201-42B6-7047-005	238,84 €
RFTF-Modbus P T 5L	(5 x as above)		0...+50 °C	RS485		1201-42B6-6051-005	260,05 €
RFTF-Modbus P T 5L LCD	(5 x as above)		0...+50 °C	RS485	B2 	1201-42B6-7051-005	296,42 €
FSFTM-Modbus-xx (WG02)	(± 3,0%)					IP 20, in-wall	
FSFTM-Modbus	(5 x as above)		0...+50 °C	RS485		1201-9226-1000-162	276,64 €
FSFTM-Modbus P	(5 x as above)		0...+50 °C	RS485		1201-9226-1400-282	299,22 €
Equipment:	P = Potentiometer (setpoint setter) T = Presence push-buttons		D5 = Rotary switch, 5-step 5L = LED display, multi-colour (5x)		Housing: B1 = Baldur 1 B2 = Baldur 2		

HYGRASREG® HYGRASGARD® CONTROL SWITCHES

For use in dust-free,
non-polluted and
non-aggressive air

HYGRASREG® LS-2
with 2 electrodes and
clear cover (IP65)

99,25 €

HYGRASREG® LS-4
with 2 electrodes and
clear cover (IP65)

112,35 €



HYGRASREG® KW-SD
with strap and
snap-on lid (IP54)

100,58 €



HYGRASREG® KW-W
with strap and
clear cover (IP65)

107,54 €



HYGRASREG® TW-W
with strap,
display and
clear cover (IP65)

168,39 €



**HYGRASGARD®
TW-external-Modbus-T3**
without Display (IP65)

198,46 €

HYGRASREG® KW condensation and **HYGRASREG® TW** dew point guards are mounted on chilled ceilings, chilled/cold water pipes or cooled surfaces. A durable, digital humidity sensor with integrated temperature sensor detects condensation or dew formation by means of pro-dynamic cross-convection (no conductivity measuring, S+S patent). **HYGRASREG® LS** leakage or water ingress detectors are available with 2 or (upright connecting) 4 electrodes. The clear-cover housing versions provide a visual control of the LED indicators inside the guard.

The new **HYGRASGARD® TW-Modbus-T3** device is designed for use in an overall monitoring and control system and, thanks to its patented measuring method using pro-dynamic cross convection, yields an exact measurement result.



HYGRASREG® & HYGRASGARD® CONTROL SWITCHES

Type	Measuring Range	Equipment	Sensor	Display	Item No.	Price
KW - SD / WG01B						
KW-W-SD	ca. 93 % r. H.	Changeover contact	internal		1202-1075-0001-020	100,58 €
KW-W-SD extern	ca. 93 % r. H.	Changeover contact	external		1202-1075-0001-040	110,12 €
KW / WG01						
KW-W	ca. 93 % r. H.	Changeover contact	internal		1202-1025-0001-020	107,54 €
KW-W-extern	ca. 93 % r. H.	Changeover contact	external		1202-1025-0001-040	130,62 €
TW / WG01						
TW-W	75...100 % r. H.	Changeover contact	internal		1202-1015-0001-000	120,94 €
TW-W LCD	75...100 % r. H.	Changeover contact	internal	■	1202-1015-1201-020	168,39 €
TW-U	0...100 % r. H.	0-10 V	— internal		1201-1011-1001-020	125,54 €
TW-U/W	0...100 % r. H.	0-10 V + Changeover contact	internal		1202-1012-1001-020	143,96 €
TW-U/W LCD	0...100 % r. H.	0-10 V + Changeover contact	internal	■	1202-1012-1201-020	191,43 €
TW-W-extern	75...100 % r. H.	Changeover contact	external		1202-1015-0021-030	155,48 €
TW-W-extern LCD	0...100 % r. H.	0-10 V + Changeover contact	external	■	1202-1015-0221-030	202,92 €
TW-Modbus-T3 / WG01						
TW-Modbus-T3	0...100% r. H. (default) 0...80 g/kg (MV) 0...80 g/m³ (a.F.) 0...85 kJ/kg (ENT.) -20...+80 °C (TP)	-35...+80 °C	RS485		1201-1281-3001-020	181,39 €
TW-Modbus-T3 LCD	(5 x as above)	(1 x as above)	RS485	■	1201-1281-3401-020	233,57 €
TW-extern-Modbus-T3	(5 x as above)	(1 x as above)	RS485		1201-1281-3001-030	198,46 €
TW-extern-Modbus-T3 LCD	(5 x as above)	(1 x as above)	RS485	■	1201-1281-3401-030	237,17 €
LS / WG01						
LS-2 (2 electrodes)	Conductance > switching threshold	Changeover contact	internal		1202-1042-0000-000	99,25 €
LS-4 (4 electrodes)	Conductance > switching threshold	Changeover contact	internal		1202-1042-0000-100	112,35 €



S+S REGELTECHNIK



S+S stands for a fully integral value chain.
All products are designed, developed,
manufactured and programmed in-house.

The new S+S company headquarters on a total area of
14,000 m² in Nordostpark on the outskirts of Nuremberg
offers a seamlessly integrated production and development
environment with excellent air and road links.



A PASSION FOR INNOVATION

S+S Regeltechnik defines itself as a flexible and reliable partner for your requirements,
from the single device to networked facility and industry automation.
To us, innovation means to lead the market both in technology and in quality.
This is how we back up your investment in products that express our passion for precision.

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Our sensors, transmitters, thermostats, hygrometers, monitors, controllers and room
climate controllers for facility and industry engineering are designed to be multifunctional.
This reduces the diversity of types and expands their application potential.
Thanks to microprocessor technology, almost any measuring range can be represented,
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