



S+S REGELTECHNIK

Omni Ray

Power of Automation



HYGRASREG® HYGRASGARD®

DIGITAL HUMIDITY SENSORS WITH
INTEGRATED TEMPERATURE SENSOR

RELIABLE PROTECTION
AGAINST HUMIDITY

- > Small hysteresis
- > Long-term stability
- > Control switches



PRODUCT RANGE 2020



FÜHLBARE PRÄZISION

HYGRASGARD® ON-WALL SENSORS



HYGRASGARD® AFF-SD
compact form,
without display

181,30 CHF



HYGRASGARD® AFF-SD
compact form,
with display

232,40 CHF



HYGRASGARD® AFF
without display

190,90 CHF



HYGRASGARD® AFF
with display

242,00 CHF

HYGRASGARD® AFF-SD HYGRASGARD® AFTF-SD

On-wall humidity sensors, **compact form** ($\pm 2.0\%$), *Standard*
On-wall humidity and temperature sensors, **compact form** ($\pm 2.0\%$), *Standard*

Type / WG01B	Measuring Range		Output		Display	Item No.	Price
	Humidity	Temperature	Humidity	Temperature	Housing		
AFF-SD	($\pm 2,0\%$)					IP 65 (compact form)	
AFF-SD-I	0...100% r. H.	–	4...20 mA	–	T1	1201-1122-0000-100	181,30 CHF
AFF-SD-I DISPLAY	0...100% r. H.	–	4...20 mA	–	T1	■ 1201-1122-0200-000	232,40 CHF
AFF-SD-U	0...100% r. H.	–	0-10 V	–	T1	1201-1121-0000-100	181,30 CHF
AFF-SD-U DISPLAY	0...100% r. H.	–	0-10 V	–	T1	■ 1201-1121-0200-000	232,40 CHF
AFTF-SD	($\pm 2,0\%$)					IP 65 (compact form)	
AFTF-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	1201-1122-1000-100	185,20 CHF
AFTF-SD-I DISPLAY	0...100% r. H.	(4x as above)	4...20 mA	4...20 mA	T1	■ 1201-1122-1200-100	236,20 CHF
AFTF-SD-U	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-1121-1000-100	185,20 CHF
AFTF-SD-U DISPLAY	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T1	■ 1201-1121-1200-100	236,20 CHF

HYGRASGARD® AFF HYGRASGARD® AFTF

On-wall humidity sensors ($\pm 2.0\%$), *Standard*
On-wall humidity and temperature sensors ($\pm 2.0\%$), *Standard*

Type / WG02	Measuring Range		Output		Display	Item No.	Price
	Humidity	Temperature	Humidity	Temperature	Housing		
AFF	($\pm 2,0\%$)					IP 65	
AFF-I TYR-2	0...100% r. H.	–35...+75 °C –35...+35 °C 0...+50 °C 0...+80 °C	4...20 mA	–	T2	1201-7112-0000-000	190,90 CHF
AFF-I TYR-2 DISPLAY	0...100% r. H.	–	4...20 mA	–	T2	■ 1201-7112-0400-000	242,00 CHF
AFF-U TYR-2	0...100% r. H.	–	0-10 V	–	T2	1201-7111-0000-000	190,90 CHF
AFF-U TYR-2 DISPLAY	0...100% r. H.	–	0-10 V	–	T2	■ 1201-7111-0400-000	242,00 CHF
AFTF	($\pm 2,0\%$)					IP 65	
AFTF-I TYR 2	0...100% r. H.	(4x as above)	4...20 mA	4...20 mA	T2	1201-7112-1000-000	209,40 CHF
AFTF-I TYR 2 DISPLAY	0...100% r. H.	(4x as above)	4...20 mA	4...20 mA	T2	■ 1201-7112-1400-000	260,50 CHF
AFTF-U TYR-2	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2	1201-7111-1000-000	209,40 CHF
AFTF-U TYR-2 DISPLAY	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2	■ 1201-7111-1400-000	260,50 CHF
AFTF-U xx	($\pm 2,0\%$)			active / passive		IP 65	
AFTF-U xx	0...100% r. H.	(4x as above)	0-10 V	0-10 V + xx		see catalog	from 210,10 CHF

xx = passive sensor, e.g. Pt100, Pt1000, Ni, LM235Z, NTC

Housing: T1 = Tyr 1 / T2 = Tyr 2



HYGRASGARD® AFF-20

242,00 CHF



HYGRASGARD® AFF-20
with display

293,10 CHF



HYGRASGARD® AFF-25
pluggable measuring head

357,50 CHF



HYGRASGARD® AFF-25
pluggable measuring head,
with display

407,50 CHF

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		On-wall humidity sensors ($\pm 1.8\%$), <i>Premium</i>					Display Housing	Item No.	Price
HYGRASGARD® AFTF-20		On-wall humidity and temperature sensors ($\pm 1.8\%$), <i>Premium</i>							
Type / WG02	Measuring Range	Humidity	Temperature	Output Humidity	Temperature				
AFF-20	($\pm 1.8\%$)						IP 65		
AFF-20-I TYR-2	0...100% r. H.	–	–	4... 20mA	–	T2	1201-7112-0000-201	242,00 CHF	
AFF-20-I TYR-2 DISPLAY	0...100% r. H.	–	–	4... 20mA	–	T2 ■	1201-7112-0400-201	293,10 CHF	
AFF-20-U TYR-2	0...100% r. H.	–	–	0-10V	–	T2	1201-7111-0000-201	242,00 CHF	
AFF-20-U TYR-2 DISPLAY	0...100% r. H.	–	–	0-10V	–	T2 ■	1201-7111-0400-201	293,10 CHF	
AFTF-20	($\pm 1.8\%$)						IP 65		
AFTF-20-I TYR-2	0...100% r. H.	–35...+75 °C	–35...+35 °C	4... 20mA	4... 20mA	T2	1201-7112-1000-201	265,60 CHF	
AFTF-20-I TYR-2 DISPLAY	0...100% r. H.	(4x as above)	(4x as above)	4... 20mA	4... 20mA	T2 ■	1201-7112-1400-201	314,20 CHF	
AFTF-20-U TYR-2	0...100% r. H.	(4x as above)	(4x as above)	0-10V	0-10V	T2	1201-7111-1000-201	265,60 CHF	
AFTF-20-U TYR-2 DISPLAY	0...100% r. H.	(4x as above)	(4x as above)	0-10V	0-10V	T2 ■	1201-7111-1400-201	314,20 CHF	
HYGRASGARD® AFF-25		On-wall humidity sensors, pluggable ($\pm 1.8\%$), <i>Deluxe</i>					Display Housing	Item No.	Price
HYGRASGARD® AFTF-25		On-wall humidity and temperature sensors, pluggable ($\pm 1.8\%$), <i>Deluxe</i>							
Type / WG02	Measuring Range	Humidity	Temperature	Output Humidity	Temperature				
AFF-25	($\pm 1.8\%$)						IP 65 (pluggable)		
AFF-25-I TYR-2	0...100% r. H.	–	–	4... 20mA	–	T2	1201-7132-0000-101	357,50 CHF	
AFF-25-I TYR-2 DISPLAY	0...100% r. H.	–	–	4... 20mA	–	T2 ■	1201-7132-0400-101	407,50 CHF	
AFF-25-U TYR-2	0...100% r. H.	–	–	0-10V	–	T2	1201-7131-0000-101	357,50 CHF	
AFF-25-U TYR-2 DISPLAY	0...100% r. H.	–	–	0-10V	–	T2 ■	1201-7131-0400-101	407,50 CHF	
AFTF-25	($\pm 1.8\%$)						IP 65 (pluggable)		
AFTF-25-I TYR-2	0...100% r. H.	(4x as above)	(4x as above)	4... 20mA	4... 20mA	T2	1201-7132-1000-101	379,20 CHF	
AFTF-25-I TYR-2 DISPLAY	0...100% r. H.	(4x as above)	(4x as above)	4... 20mA	4... 20mA	T2 ■	1201-7132-1400-101	429,20 CHF	
AFTF-25-U TYR-2	0...100% r. H.	(4x as above)	(4x as above)	0-10V	0-10V	T2	1201-7131-1000-101	379,20 CHF	
AFTF-25-U TYR-2 DISPLAY	0...100% r. H.	(4x as above)	(4x as above)	0-10V	0-10V	T2 ■	1201-7131-1400-101	429,20 CHF	

Housing: T2 = Tyr 2

HYGRASGARD® DUCT SENSORS



HYGRASGARD®
AFTF-Modbus-T3
without display

211,80 CHF



HYGRASGARD®
AFTF-Modbus-T3
with display

266,90 CHF



HYGRASGARD®
KFTF-Modbus-T3

209,80 CHF



HYGRASGARD®
KFTF-Modbus-T3
with display

264,90 CHF

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.

NEW

Type / WG01	Measuring Range	Temperature	Output	Display Housing	Item No.	Price
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%)				
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	1201-12C6-1000-000 211,80 CHF
AFTF-MODBUS-T3 LCD	(5x as above)	-35...+80 °C	RS485		T3 ■	1201-12C6-1400-000 266,90 CHF
KFTF-Modbus-T3	(±2.0%)				IP 65	
KFTF-MODBUS-T3	(5x as above)	-35...+80 °C	RS485		T3	1201-32C6-1000-029 209,80 CHF
KFTF-MODBUS-T3 LCD	(5x as above)	-35...+80 °C	RS485		T3 ■	1201-32C6-1400-029 264,90 CHF
KFTF-20-Modbus-T3	(±1.8%)				IP 65	
KFTF-20-MODBUS-T3	(5x as above)	-35...+80 °C	RS485		T3	1201-32C6-1000-030 274,20 CHF
KFTF-20-MODBUS-T3 LCD	(5x as above)	-35...+80 °C	RS485		T3 ■	1201-32C6-1400-030 413,10 CHF
HYGRASGARD® AAVTF		On-wall outdoor humidity sensors (±2.0%)				
HYGRASGARD® KAVTF		Duct outdoor humidity sensors (±2.0%)				
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	1201-1162-6000-028 206,20 CHF
AAVTF-I DISPLAY	(8x as above)	(4x as above)	4...20 mA	4...20 mA	T1 ■	1201-1162-6200-028 256,20 CHF
AAVTF-U	(8x as above)	(4x as above)	0-10V	0-10V	T1	1201-1161-6000-028 206,20 CHF
AAVTF-U DISPLAY	(8x as above)	(4x as above)	0-10V	0-10V	T1 ■	1201-1161-6200-028 256,20 CHF
KAVTF	(±2.0%)				IP 65	
KAVTF-I	(8x as above)	(4x as above)	4...20 mA	4...20 mA	T1	1201-3162-6000-029 188,00 CHF
KAVTF-I DISPLAY	(8x as above)	(4x as above)	4...20 mA	4...20 mA	T1 ■	1201-3162-6200-029 248,70 CHF
KAVTF-U	(8x as above)	(4x as above)	0-10V	0-10V	T1	1201-3161-6000-029 188,00 CHF
KAVTF-U DISPLAY	(8x as above)	(4x as above)	0-10V	0-10V	T1 ■	1201-3161-6200-029 248,70 CHF
Extra charge:	Other non-standard ranges optional					150,00 CHF

Housing: T1 = Tyr 1 / T3 = Tyr 3



HYGRASGARD® KFF-SD
with snap-on lid

162,80 CHF

HYGRASGARD® KFF
without display

175,00 CHF

HYGRASGARD® KFF
with display

226,00 CHF

HYGRASGARD® KFF-20
with display

293,10 CHF

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

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	162,80 CHF
KFF-SD-U	0...100% r. H.	-	0-10 V	-	T1	1201-3181-0000-029	162,80 CHF
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	167,30 CHF
KFTF-SD-U	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-3181-1000-029	167,30 CHF

HYGRASGARD® KFF Humidity sensors ($\pm 2,0\%$), *Standard*
HYGRASGARD® KFTF Humidity and temperature sensors ($\pm 2,0\%$), *Standard*

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	175,00 CHF
KFF-I DISPLAY	0...100% r. H.	-	4...20 mA	-	T1 ■	1201-3112-0200-029	226,00 CHF
KFF-U	0...100% r. H.	-	0-10 V	-	T1	1201-3111-0000-029	175,00 CHF
KFF-U DISPLAY	0...100% r. H.	-	0-10 V	-	T1 ■	1201-3111-0200-029	226,00 CHF
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	179,40 CHF
KFTF-I DISPLAY	0...100% r. H.	(4x as above)	4...20 mA	4...20 mA	T1 ■	1201-3112-1200-029	230,50 CHF
KFTF-U	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1000-029	179,40 CHF
KFTF-U DISPLAY	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T1 ■	1201-3111-1200-029	230,50 CHF
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 186,50 CHF

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

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

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	242,00 CHF
KFF-20-I TYR-2 DISPLAY	0...100% r. H.	-	4...20 mA	-	T2 ■	1201-8112-0400-030	293,10 CHF
KFF-20-U	0...100% r. H.	-	0-10 V	-	T1	1201-3111-0000-030	242,00 CHF
KFF-20-U TYR-2 DISPLAY	0...100% r. H.	-	0-10 V	-	T2 ■	1201-8111-0400-030	293,10 CHF
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	265,60 CHF
KFTF-20-I TYR-2 DISPLAY	0...100% r. H.	(4x as above)	4...20 mA	4...20 mA	T2 ■	1201-8112-1400-030	314,20 CHF
KFTF-20-U	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1000-030	265,60 CHF
KFTF-20-U TYR-2 DISPLAY	0...100% r. H.	(4x as above)	0-10 V	0-10 V	T2 ■	1201-8111-1400-030	314,20 CHF

Housing: T1 = Tyr 1 / T2 = Tyr 2

HYGRASGARD® SHOWCASE SENSOR PENDULUM ROOM SENSORS



HYGRASGARD® RPFF - SD
without housing

156,60 CHF

HYGRASGARD® RPFF
without display

199,20 CHF

HYGRASGARD® RPFF
with display

249,20 CHF

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		Showcase humidity sensor, pluggable ($\pm 2,0\%$), <i>Premium</i>						
HYGRASGARD® VFTF		Showcase humidity- and temperature sensor, pluggable ($\pm 2,0\%$), <i>Premium</i>						
Type / WG02	Measuring Range		Output		Display	Item No.	Price	
	Humidity	Temperature	Humidity	Temperature	Housing			
VFF	($\pm 2,0\%$)					IP 65 (pluggable)		
VFF-I	0...100% r. H.	–	4...20 mA	–	T1	1201-6122-0000-100	463,80 CHF	
VFF-I DISPLAY	0...100% r. H.	–	4...20 mA	–	T1 ■	1201-6122-0200-100	514,90 CHF	
VFF-U	0...100% r. H.	–	0-10 V	–	T1	1201-6121-0000-100	463,80 CHF	
VFF-U DISPLAY	0...100% r. H.	–	0-10 V	–	T1 ■	1201-6121-0200-100	514,90 CHF	
VFTF	($\pm 2,0\%$)					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	467,90 CHF	
VFTF-I DISPLAY	0...100% r. H.	(4 x as above)	4...20 mA	4...20 mA	T1 ■	1201-6122-1200-100	519,40 CHF	
VFTF-U	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T1	1201-6121-1000-100	467,90 CHF	
VFTF-U DISPLAY	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T1 ■	1201-6121-1200-100	519,40 CHF	
HYGRASGARD® VFTF-Modbus-T3		Showcase humidity and temperature sensor ($\pm 2,0\%$), <i>Premium</i>						
Type / WG01	Measuring Range		Output		Display	Item No.	Price	
	Humidity	Temperature			Housing			
VFTF-Modbus-T3	($\pm 2,0\%$)					IP 65 (pluggable)		
VFTF-MODBUS-T3	0...100% r. H.	(default)	–35...+80 °C	RS485	T3	1201-6256-1000-000	511,60 CHF	
	0...80 g / kg	(MV)						
	0...80 g / m ³	(a.F.)						
	0...85 kJ / kg	(ENT.)						
	–20...+80 °C	(TP)						
VFTF-MODBUS-T3 LCD	(5 x as above)		–35...+80 °C	RS485	T3 ■	1201-6256-1400-000	570,10 CHF	

HYGRASGARD® RPFF-25
pluggable measuring head

415,00 CHF

HYGRASGARD® RPFF-25
pluggable measuring head,
with display

464,90 CHF

NEW



HYGRASGARD®
RPFTF-Modbus-T3
without display

297,20 CHF



HYGRASGARD®
RPFTF-Modbus-T3
with display

352,10 CHF

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 Housing	Item No.	Price
	Humidity	Temperature	Humidity	Temperature			
RPFF-SD / WG01	($\pm 2,0\%$)					IP 65	
RPFF-SD-I	0...100% r. H.	–	4...20 mA	–	–	1201-1172-0000-150	156,60 CHF
RPFF / WG01	($\pm 2,0\%$)					IP 65	
RPFF-I	0...100% r. H.	–	4...20 mA	–	T1	1201-1172-0000-100	199,20 CHF
RPFF-U	0...100% r. H.	–	0-10 V	–	T1	1201-1171-0000-100	199,20 CHF
RPFF-xx DISPLAY	0...100% r. H.	–	–	–	T1	■ Extra charge	50,00 CHF
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	203,70 CHF
RPFTF-U	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T1	1201-1171-1000-100	203,70 CHF
RPFTF-xx DISPLAY	0...100% r. H.	(4 x as above)	–	–	T1	■ Extra charge	50,00 CHF
RPFF-25 / WG02	($\pm 1,8\%$)					IP 65 (pluggable)	
RPFF-25-I	0...100% r. H.	–	4...20 mA	–	T2	1201-7122-0000-100	415,00 CHF
RPFF-25-I DISPLAY	0...100% r. H.	–	4...20 mA	–	T2	■ 1201-7122-0400-100	464,90 CHF
RPFF-25-U	0...100% r. H.	–	0-10 V	–	T2	1201-7121-0000-100	415,00 CHF
RPFF-25-U DISPLAY	0...100% r. H.	–	0-10 V	–	T2	■ 1201-7121-0400-100	464,90 CHF
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	436,70 CHF
RPFTF-25-I DISPLAY	0...100% r. H.	(4 x as above)	4...20 mA	4...20 mA	T2	■ 1201-7122-1400-100	486,60 CHF
RPFTF-25-U	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T2	1201-7121-1000-100	436,70 CHF
RPFTF-25-U DISPLAY	0...100% r. H.	(4 x as above)	0-10 V	0-10 V	T2	■ 1201-7121-1400-100	486,60 CHF

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 Housing	Item No.	Price
	Humidity	Temperature				
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)	RS485	T3	1201-6246-1000-000	297,20 CHF
RPFTF-MODBUS-T3 LCD	(5 x as above)	–35...+80 °C	RS485	T3	■ 1201-6246-1400-000	352,10 CHF
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	356,50 CHF
RPFTF-20-MODBUS-T3 LCD	(5 x as above)	–35...+80 °C	RS485	T3	■ 1201-6246-1400-001	412,00 CHF

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

83,30 CHF



HYGRASREG® RHT
with external control dial

166,70 CHF



HYGRASREG® KH-10
with external control dial

230,10 CHF

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	83,30 CHF
RH-2 U	25...95 % r. H.	1x Changeover contact	internal	1202-40C0-0020-000	85,80 CHF
RHT / WG02				IP 30	
RHT-1	35...100 % r. H., +10...+35 °C	Main switch	external	1202-4010-0000-000	166,70 CHF
KH-10 / WG01				IP 65	
KH-10	35...100 % r. H.	–	external	1202-3012-0010-000	230,10 CHF
KH-10 U	35...100 % r. H.	Setpoint adjuster covered	internal	1202-3012-0020-000	227,60 CHF

HYGRASREG® ELECTRONIC



HYGRASREG® AHT-30
with display and
plastic sinter filter

236,50 CHF



HYGRASREG® AH-40
with display and
plastic sinter filter

182,00 CHF



HYGRASREG® KHT-30
with display and
plastic sinter filter

236,50 CHF



HYGRASREG® KH-40
with display and
plastic sinter filter

183,20 CHF



HYGRASREG® RHT-30
with display and
external setting

198,60 CHF

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 **Tyr2** 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 **Tyr1** 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 TYR2	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 4...20 mA	internal	■	1202-7127-2421-000	236,50 CHF
AHT-30W-U TYR2	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 0-10 V	internal	■	1202-7127-1421-000	236,50 CHF
AH - 40 / WG01						IP 65	
AH-40W TYR-1	5...95 % r. H.	1x Changeover contact	–	internal	■	1202-1065-0221-000	182,00 CHF
KHT - 30 / WG02						IP 65	
KHT-30W-I TYR2	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 4...20 mA	internal	■	1202-8127-2421-000	236,50 CHF
KHT-30W-U TYR2	5...95 % r. H., -35...+80 °C	2x Changeover contact	2x 0-10 V	internal	■	1202-8127-1421-000	236,50 CHF
KH - 40 / WG01						IP 65	
KH-40W TYR-1	5...95 % r. H.	1x Changeover contact	–	internal	■	1202-3065-0221-000	183,20 CHF
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	182,60 CHF
RHT-30W	5...95 % r. H., +5...+45 °C	2x Changeover contact	1x 0-10 V	external		1202-4077-1011-200	185,30 CHF
RHT-30W DISPLAY	5...95 % r. H., +5...+45 °C	2x Changeover contact	1x 0-10 V	external	■	1202-4077-1211-200	198,60 CHF

HYGRASGARD® ROOM SENSORS ROOM CONTROL UNITS



HYGRASGARD® FSFM-U
240,20 CHF



HYGRASGARD® RFF
119,30 CHF



HYGRASGARD® RFTF-Modbus
with display
and potentiometer
239,40 CHF



HYGRASGARD® RFTF-Modbus
with LED-display,
push-buttons, rotary switches
and potentiometer
306,60 CHF

HYGRASGARD® Room, humidity and temperature sensors or measuring transducers							
Type	Measuring Range		Output		Display	Item No.	Price
	Humidity	Temperature	Humidity	Temperature	Housing		
RFF / RFTF (WG01)	(± 2,0%)					IP 30, on-wall	
RFF-I	0...100% r. H.	–	4...20 mA	–	B1	1201-41A2-0000-000	119,30 CHF
RFF-I DISPLAY	0...100% r. H.	–	4...20 mA	–	B1	1201-41A2-0200-000	175,00 CHF
RFF-U	0...100% r. H.	–	0-10 V	–	B1	1201-41A1-0000-000	119,30 CHF
RFF-U DISPLAY	0...100% r. H.	–	0-10 V	–	B1	1201-41A1-0200-000	175,00 CHF
RFTF-I	0...100% r. H.	0...+50 °C	4...20 mA	4...20 mA	B1	1201-41A2-1000-000	123,00 CHF
RFTF-I DISPLAY	0...100% r. H.	0...+50 °C	4...20 mA	4...20 mA	B1	1201-41A2-1200-000	178,80 CHF
RFTF-U	0...100% r. H.	0...+50 °C	0-10 V	0-10 V	B1	1201-41A1-1000-000	123,00 CHF
RFTF-U DISPLAY	0...100% r. H.	0...+50 °C	0-10 V	0-10 V	B1	1201-41A1-1200-000	178,80 CHF
RFTF-U xx	0...100% r. H.	0...+50 °C	0-10 V	0-10 V + xx	B1	see catalog	from 163,80 CHF
RFTF-U xx DISPLAY	0...100% r. H.	0...+50 °C	0-10 V	0-10 V + xx	B1	see catalog	extra charge 50,00 CHF
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	240,20 CHF
FSFTM-U	0...100% r. H.	0...+50 °C	0-10 V	0-10 V		1201-9121-1000-162	247,40 CHF
HYGRASGARD® Room, humidity and temperature sensors or measuring transducers with Modbus connection							
Type	Measuring Range		Output		Display	Item No.	Price
	Humidity	Temperature			Housing		
RTM 1 - Modbus (WG01)	(± 2,0%)					IP 30, on-wall	
RTM1-MODBUS	–	0...+50 °C	RS485		B1	1101-42A6-0000-000	115,60 CHF
RTM1-MODBUS LCD	–	0...+50 °C	RS485		B1	1101-42A6-2000-000	171,10 CHF
RTM1-MODBUS P	–	0...+50 °C	RS485		B1	1101-42A6-0001-005	152,00 CHF
RTM1-MODBUS P LCD	–	0...+50 °C	RS485		B1	1101-42A6-2001-005	273,60 CHF
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	201,10 CHF
RFTF-MODBUS P LCD	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-7001-005	239,40 CHF
RFTF-MODBUS P 5L	(5 x as above)		0...+50 °C	RS485		1201-42B6-6119-005	259,30 CHF
RFTF-MODBUS P 5L LCD	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-7119-005	297,60 CHF
RFTF-MODBUS P D5	(5 x as above)		0...+50 °C	RS485		1201-42B6-6012-841	231,40 CHF
RFTF-MODBUS P D5 5L	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-6120-841	292,10 CHF
RFTF-MODBUS P T D5 5L	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-6121-841	306,60 CHF
RFTF-MODBUS P T	(5 x as above)		0...+50 °C	RS485		1201-42B6-6047-005	213,20 CHF
RFTF-MODBUS P T LCD	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-7047-005	251,50 CHF
RFTF-MODBUS P T 5L	(5 x as above)		0...+50 °C	RS485		1201-42B6-6051-005	273,90 CHF
RFTF-MODBUS P T 5L LCD	(5 x as above)		0...+50 °C	RS485	B2	1201-42B6-7051-005	312,20 CHF
FSFTM - Modbus-xx (WG02)	(± 3,0%)					IP 20, in-wall	
FSFTM-MODBUS	(5 x as above)		0...+50 °C	RS485		1201-9226-1000-162	291,40 CHF
FSFTM-MODBUS P	(5 x as above)		0...+50 °C	RS485		1201-9226-1400-282	315,10 CHF
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® KW-SD
with strap and
snap-on lid (IP54)
106,00 CHF



HYGRASREG® KW-W
with strap and
clear cover (IP65)
113,30 CHF



HYGRASREG® TW-W
with strap,
display and
clear cover (IP65)
177,40 CHF



HYGRASREG® LS-2
with 2 electrodes and
clear cover (IP65)
104,60 CHF



HYGRASREG® LS-4
with 2 electrodes and
clear cover (IP65)
118,40 CHF

**HYGRASGARD®
TW-external-Modbus-T3**
without Display (IP65)
209,00 CHF

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							IP 54 (snap-on lid)
KW-W-SD	ca. 93 % r. H.		Changeover contact	internal		1202-1075-0001-020	106,00 CHF
KW-W-SD EXTERN	ca. 93 % r. H.		Changeover contact	external		1202-1075-0001-040	116,00 CHF
KW / WG01							IP 65 (clear cover)
KW-W	ca. 93 % r. H.		Changeover contact	internal		1202-1025-0001-020	113,30 CHF
KW-W EXTERN	ca. 93 % r. H.		Changeover contact	external		1202-1025-0001-040	137,60 CHF
TW / WG01							IP 65 (clear cover)
TW-W	75...100 % r. H.		Changeover contact	internal		1202-1015-0001-000	127,40 CHF
TW-W DISPLAY	75...100 % r. H.		Changeover contact	internal	■	1202-1015-1201-020	177,40 CHF
TW-U	0...100 % r. H.	0-10 V		- internal		1201-1011-1001-020	132,20 CHF
TW-U/W	0...100 % r. H.	0-10 V + Changeover contact		internal		1202-1012-1001-020	151,70 CHF
TW-U/W DISPLAY	0...100 % r. H.	0-10 V + Changeover contact		internal	■	1202-1012-1201-020	201,60 CHF
TW-W EXTERN	75...100 % r. H.		Changeover contact	external		1202-1015-0021-030	163,80 CHF
TW-W EXTERN DISPLAY	0...100 % r. H.	0-10 V + Changeover contact		external	■	1202-1015-0221-030	213,70 CHF
TW-Modbus-T3 / WG01							IP 65 (Housing Tyr 3)
TW-MODBUS-T3	0 ... 100% r. H. (default) 0 ... 80 g / kg (MV) 0 ... 80 g / m ³ (a.F.) 0 ... 85 kJ / kg (ENT.) -20...+80 °C (TP)		-35...+80 °C	RS485		1201-1281-3001-020	191,10 CHF
TW-MODBUS-T3 LCD	(5 x as above)		(1 x as above)	RS485	■	1201-1281-3401-020	246,00 CHF
TW-EXTERN-MODBUS-T3	(5 x as above)		(1 x as above)	RS485		1201-1281-3001-030	209,00 CHF
TW-EXTERN-MODBUS-T3 LCD	(5 x as above)		(1 x as above)	RS485	■	1201-1281-3401-030	249,80 CHF
LS / WG01							IP 65 (clear cover)
LS-2 (2 electrodes)	Conductance > switching threshold		Change-over contact	internal		1202-1042-0000-000	104,60 CHF
LS-4 (4 electrodes)	Conductance > switching threshold		Change-over contact	internal		1202-1042-0000-100	118,40 CHF



S+S REGELTECHNIK



- > 65 employees
- > 500 m² of office / administration space
- > 4000 m² of manufacturing space
- > 800 m² finished parts warehouse
- > 24-hours shipment service
- > Made-to-order production

Learn more about our complete product range in the **S+S main catalogue** or online at www.SplusS.de www.SplusS.de



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Power of Automation

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S+S REGELTECHNIK GMBH

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CE compliant devices tested by external laboratories

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