



S+S REGELTECHNIK



# HYGRASREG<sup>®</sup> HYGRASGARD<sup>®</sup>

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



PRODUCT RANGE 2024



S+S REGELTECHNIK USA DIVISION

# HYGRASGARD® ON-WALL SENSORS



**HYGRASGARD® AFF-SD**  
compact form,  
without display

**\$210.39**



**HYGRASGARD® AFF-SD**  
compact form,  
with display

**\$269.67**



**HYGRASGARD® AFF**  
without display

**\$221.51**



**HYGRASGARD® AFF**  
with display

**\$280.78**

<b>HYGRASGARD® AFF-SD</b>		On-wall humidity sensors, <b>compact form</b> ( $\pm 2.0\%$ ), <i>Standard</i>					
<b>HYGRASGARD® AFTF-SD</b>		On-wall humidity and temperature sensors, <b>compact form</b> ( $\pm 2.0\%$ ), <i>Standard</i>					
Type / WG01B	Measuring Range / Readout SI*	Output Humidity	Temperature	Display Housing	Item No.	Price USD	
<b>AFF-SD</b>	<b>(<math>\pm 2,0\%</math>)</b>				<b>IP 65</b> (compact form)		
AFF-SD-I	0...100% RH –	4...20 mA	–	T1	1201-1122-0000-100	<b>\$210.39</b>	
AFF-SD-I LCD	0...100% RH –	4...20 mA	–	T1	■ 1201-1122-0200-000	<b>\$269.67</b>	
AFF-SD-U	0...100% RH –	0-10 V	–	T1	1201-1121-0000-100	<b>\$210.39</b>	
AFF-SD-U LCD	0...100% RH –	0-10 V	–	T1	■ 1201-1121-0200-000	<b>\$269.67</b>	
<b>AFTF-SD</b>	<b>(<math>\pm 2,0\%</math>)</b>				<b>IP 65</b> (compact form)		
AFTF-SD-I	0...100% RH –35...+75 °C (–31...+167 °F)* –35...+35 °C (–31...+95 °F)* 0...+50 °C (+32...+122 °F)* 0...+80 °C (+32...+176 °F)*	4...20 mA	4...20 mA	T1	1201-1122-1000-100	<b>\$214.85</b>	
AFTF-SD-I LCD	0...100% RH (4x as above)	4...20 mA	4...20 mA	T1	■ 1201-1122-1200-100	<b>\$274.10</b>	
AFTF-SD-U	0...100% RH (4x as above)	0-10 V	0-10 V	T1	1201-1121-1000-100	<b>\$214.85</b>	
AFTF-SD-U LCD	0...100% RH (4x as above)	0-10 V	0-10 V	T1	■ 1201-1121-1200-100	<b>\$274.10</b>	
<b>HYGRASGARD® AFF</b>		On-wall humidity sensors ( $\pm 2.0\%$ ), <i>Standard</i>					
<b>HYGRASGARD® AFTF</b>		On-wall humidity and temperature sensors ( $\pm 2.0\%$ ), <i>Standard</i>					
Type / WG02	Measuring Range / Readout SI*	Output Humidity	Temperature	Display Housing	Item No.	Price USD	
<b>AFF</b>	<b>(<math>\pm 2,0\%</math>)</b>				<b>IP 65</b>		
AFF-I	0...100% RH –	4...20 mA	–	T2	1201-7112-0000-000	<b>\$221.51</b>	
AFF-I LCD	0...100% RH –	4...20 mA	–	T2	■ 1201-7112-0400-000	<b>\$280.78</b>	
AFF-U	0...100% RH –	0-10 V	–	T2	1201-7111-0000-000	<b>\$221.51</b>	
AFF-U LCD	0...100% RH –	0-10 V	–	T2	■ 1201-7111-0400-000	<b>\$280.78</b>	
<b>AFTF</b>	<b>(<math>\pm 2,0\%</math>)</b>				<b>IP 65</b>		
AFTF-I	0...100% RH –35...+75 °C (–31...+167 °F)* –35...+35 °C (–31...+95 °F)* 0...+50 °C (+32...+122 °F)* 0...+80 °C (+32...+176 °F)*	4...20 mA	4...20 mA	T2	1201-7112-1000-000	<b>\$243.00</b>	
AFTF-I LCD	0...100% RH (4x as above)	4...20 mA	4...20 mA	T2	■ 1201-7112-1400-000	<b>\$302.26</b>	
AFTF-U	0...100% RH (4x as above)	0-10 V	0-10 V	T2	1201-7111-1000-000	<b>\$243.00</b>	
AFTF-U LCD	0...100% RH (4x as above)	0-10 V	0-10 V	T2	■ 1201-7111-1400-000	<b>\$302.26</b>	
<b>AFTF-U xx</b>	<b>(<math>\pm 2,0\%</math>)</b>	<b>active/passive</b>			<b>IP 65</b>		
AFTF-U xx	0...100% RH (4x as above)	0-10 V	0-10 V + xx		see onlineshop	from <b>\$243.74</b>	
<b>xx = passive sensor, e.g. Pt100, Pt1000, Ni, LM235Z, NTC</b>							

Housing: T1 = Tyr 1 / T2 = Tyr 2



HYGRASGARD® AFF-20

**\$280.78**

HYGRASGARD® AFF-20  
with display

**\$340.04**

HYGRASGARD® AFF-25  
pluggable measuring head

**\$414.86**

HYGRASGARD® ESFTF  
Screw-in sensor  
for high humidity

**\$615.64**

HYGRASGARD® AFF-20		On-wall humidity sensors (± 1,8%), Premium					
HYGRASGARD® AFTF-20		On-wall humidity and temperature sensors (± 1,8%), Premium					
Type / WG02	Measuring Range / Readout SI*	Output Humidity	Output Temperature	Display Housing	Item No.	Price USD	
<b>AFF-20</b>	<b>(± 1,8%)</b>				<b>IP 65</b>		
AFF-20-I	0...100% RH	4...20 mA	–	T2	1201-7112-0000-201	<b>\$280.78</b>	
AFF-20-I LCD	0...100% RH	4...20 mA	–	T2	1201-7112-0400-201	<b>\$340.04</b>	
AFF-20-U	0...100% RH	0-10V	–	T2	1201-7111-0000-201	<b>\$280.78</b>	
AFF-20-U LCD	0...100% RH	0-10V	–	T2	1201-7111-0400-201	<b>\$340.04</b>	
<b>AFTF-20</b>	<b>(± 1,8%)</b>				<b>IP 65</b>		
AFTF-20-I	0...100% RH	4...20 mA	4...20 mA	T2	1201-7112-1000-201	<b>\$308.23</b>	
			–35...+75 °C (–31...+167 °F)* –35...+35 °C (–31... +95 °F)* 0...+50 °C (+32...+122 °F)* 0...+80 °C (+32...+176 °F)*				
AFTF-20-I LCD	0...100% RH	4...20 mA	4...20 mA	T2	1201-7112-1400-201	<b>\$364.56</b>	
AFTF-20-U	0...100% RH	0-10V	0-10V	T2	1201-7111-1000-201	<b>\$308.23</b>	
AFTF-20-U LCD	0...100% RH	0-10V	0-10V	T2	1201-7111-1400-201	<b>\$364.56</b>	
<b>HYGRASGARD® AFF-25</b>		On-wall humidity sensors, pluggable (± 1,8%), Deluxe					
<b>HYGRASGARD® AFTF-25</b>		On-wall humidity and temperature sensors, pluggable (± 1,8%), Deluxe					
Type / WG02	Measuring Range / Readout SI*	Output Humidity	Output Temperature	Display Housing	Item No.	Price USD	
<b>AFF-25</b>	<b>(± 1,8%)</b>				<b>IP 65 (pluggable)</b>		
AFF-25-I	0...100% RH	4...20 mA	–	T2	1201-7132-0000-101	<b>\$414.86</b>	
AFF-25-I LCD	0...100% RH	4...20 mA	–	T2	1201-7132-0400-101	<b>\$472.85</b>	
AFF-25-U	0...100% RH	0-10V	–	T2	1201-7131-0000-101	<b>\$414.86</b>	
AFF-25-U LCD	0...100% RH	0-10V	–	T2	1201-7131-0400-101	<b>\$472.85</b>	
<b>AFTF-25</b>	<b>(± 1,8%)</b>				<b>IP 65 (pluggable)</b>		
AFTF-25-I	0...100% RH	4...20 mA	4...20 mA	T2	1201-7132-1000-101	<b>\$440.04</b>	
AFTF-25-I LCD	0...100% RH	4...20 mA	4...20 mA	T2	1201-7132-1400-101	<b>\$498.05</b>	
AFTF-25-U	0...100% RH	0-10V	0-10V	T2	1201-7131-1000-101	<b>\$440.04</b>	
AFTF-25-U LCD	0...100% RH	0-10V	0-10V	T2	1201-7131-1400-101	<b>\$498.05</b>	
<b>HYGRASGARD® ESFTF</b>		Screw-in humidity and temperature sensor for pressure systems					
Type / WG02	Measuring Range / Readout SI*	Output Humidity	Output Temperature	Display Housing	Item no.	Price USD	
<b>ESFTF NEW</b>					<b>IP 65</b>		
ESFTF-I	0...100% RH (default) 0...80 g/m³ (AH) 0...80 g/kg (MV) –20...+80 °C (DP)	4...20 mA	4...20 mA	T1	1201-2112-1000-000	<b>\$615.64</b>	
	0...+50 °C (+32...+122 °F)* –20...+80 °C (–4...+176 °F)* –30...+70 °C (+22...+158 °F)* 0...+100 °C (+32...+212 °F)*						
ESFTF-I LCD	(4x as above)	4...20 mA	4...20 mA	T1	1201-2112-1200-000	<b>\$737.22</b>	
ESFTF-U	(4x as above)	0-10V	0-10V	T1	1201-2111-1000-000	<b>\$615.64</b>	
ESFTF-U LCD	(4x as above)	0-10V	0-10V	T1	1201-2111-1200-000	<b>\$737.22</b>	

Housing: T1 = Tyr 1 / T2 = Tyr 2



**NEW**

# HYGRASGARD® DUCT SENSORS



HYGRASGARD®  
AFTF-Modbus-T3  
without display

**\$245.70**



HYGRASGARD®  
AFTF-Modbus-T3  
with display

**\$309.72**



HYGRASGARD®  
AFTF-35

**\$834.09**

HYGRASGARD®  
KFTF-Modbus-T3

**\$243.41**



**HYGRASGARD® AFTF-Modbus-T3** On-wall-humidity- and temperature sensors ( $\pm 2.0\%$ )  
**HYGRASGARD® KFTF-Modbus-T3** Duct humidity- and temperature sensors ( $\pm 2.0\%$ ) + ( $\pm 1.8\%$ )

Type / WG01	Measuring Range / Readout Imperial	Output	Display Housing	Item No.	Price USD
	Humidity Temperature				
<b>AFTF-Modbus-T3</b>	<b>(<math>\pm 2.0\%</math>)</b>			<b>IP 65</b>	
AFTF-Modbus-T3	0...100% RH (default) 0...560 gr/lb (MV) 0...34.9 gr/ft <sup>3</sup> (AH) 0...36.0 Btu/lb (ENT.) +32...+122 °F (DP)	-31...+176 °F	RS485	T3	1201-12C6-1000-000 <b>\$245.70</b>
AFTF-Modbus-T3 LCD	(5x as above)	-31...+176 °F	RS485	T3 ■	1201-12C6-1400-000 <b>\$309.72</b>
<b>KFTF-Modbus-T3</b>	<b>(<math>\pm 2.0\%</math>)</b>			<b>IP 65</b>	
KFTF-Modbus-T3	(5x as above)	-31...+176 °F	RS485	T3	1201-32C6-1000-029 <b>\$243.41</b>
KFTF-Modbus-T3 LCD	(5x as above)	-31...+176 °F	RS485	T3 ■	1201-32C6-1400-029 <b>\$307.43</b>
<b>KFTF-20-Modbus-T3</b>	<b>(<math>\pm 1.8\%</math>)</b>			<b>IP 65</b>	
KFTF-20-Modbus-T3	(5x as above)	-31...+176 °F	RS485	T3	1201-32C6-1000-030 <b>\$318.20</b>
KFTF-20-Modbus-T3 LCD	(5x as above)	-31...+176 °F	RS485	T3 ■	1201-32C6-1400-030 <b>\$479.39</b>

**HYGRASGARD® AAVTF** On-wall outdoor humidity sensors ( $\pm 2.0\%$ )  
**HYGRASGARD® KAVTF** Duct outdoor humidity sensors ( $\pm 2.0\%$ )

Type / WG01	Measuring Range / Readout SI*	Output Humidity	Output Temperature	Display Housing	Item No.	Price USD
	Humidity Temperature					
<b>AAVTF / KAVTF</b>	<b>(<math>\pm 2.0\%</math>)</b>				<b>IP 65</b>	
AAVTF-I	0...100% RH (default) 0...80 g/kg (MV) 0...80 g/m <sup>3</sup> (AH) 0...85 kJ/kg (ENT.) -20...+80 °C (DP)	0...+50 °C (+32...+122 °F)* -20...+80 °C (-4...+176 °F)* -35...+75 °C (-31...+167 °F)* -35...+35 °C (-31... +95 °F)*	4...20 mA	4...20 mA	T1	1201-1162-6000-028 <b>\$239.28</b>
(further measuring ranges see onlineshop)						
AAVTF-I LCD	(5x as above)	(4x as above)	4...20 mA	4...20 mA	T1 ■	1201-1162-6200-028 <b>\$297.28</b>
AAVTF-U	(5x as above)	(4x as above)	0-10V	0-10V	T1	1201-1161-6000-028 <b>\$239.28</b>
AAVTF-U LCD	(5x as above)	(4x as above)	0-10V	0-10V	T1 ■	1201-1161-6200-028 <b>\$297.28</b>
KAVTF-I	(5x as above)	(4x as above)	4...20 mA	4...20 mA	T1	1201-3162-6000-029 <b>\$218.16</b>
KAVTF-I LCD	(5x as above)	(4x as above)	4...20 mA	4...20 mA	T1 ■	1201-3162-6200-029 <b>\$288.56</b>
KAVTF-U	(5x as above)	(4x as above)	0-10V	0-10V	T1	1201-3161-6000-029 <b>\$218.16</b>
KAVTF-U LCD	(5x as above)	(4x as above)	0-10V	0-10V	T1 ■	1201-3161-6200-029 <b>\$288.56</b>

**HYGRASREG® AFTF-35** Condensation-protected on-wall sensor for high humidity  
**HYGRASREG® KFTF-35** Condensation-protected ductsensor for high humidity (not illustrated)

Type / WG01	Measuring Range / Readout SI*	Outputs	Display Housing	Item No.	Price USD
	Humidity Temperature				
<b>AFTF-35 / KFTF-35 NEW</b>				<b>IP 65</b>	
AFTF-35-I/W	0...100% RH (default) 0...25 g/m <sup>3</sup> (AH) 0...25 g/kg (MV) -20...+50 °C (DP) -20...+50 °C (FKT)	0...+50 °C (+32...+122 °F)* -20...+50 °C (-4...+122 °F)* -20...+80 °C (-4...+176 °F)* 0...+100 °C (+32...+212 °F)*	3x 4...20 mA + 1x W	T2	1201-714B-1000-000 <b>\$834.09</b>
(further measuring ranges see onlineshop)					
AFTF-35-I/W LCD	(5x as above)	(4x as above)	3x 4...20 mA + 1x W	T2 ■	1201-714B-1200-000 <b>\$953.23</b>
AFTF-35-U/W	(5x as above)	(4x as above)	3x 0-10V + 1x W	T2	1201-714A-1000-000 <b>\$834.09</b>
AFTF-35-U/W LCD	(5x as above)	(4x as above)	3x 0-10V + 1x W	T2 ■	1201-714A-1200-000 <b>\$953.23</b>
KFTF-35-I/W	(5x as above)	(4x as above)	3x 4...20 mA + 1x W	T2	1201-814B-1000-000 <b>\$834.09</b>
KFTF-35-I/W LCD	(5x as above)	(4x as above)	3x 4...20 mA + 1x W	T2 ■	1201-814B-1200-000 <b>\$953.23</b>
KFTF-35-U/W	(5x as above)	(4x as above)	3x 0-10V + 1x W	T2	1201-814A-1000-000 <b>\$834.09</b>
KFTF-35-U/W LCD	(5x as above)	(4x as above)	3x 0-10V + 1x W	T2 ■	1201-814A-1200-000 <b>\$953.23</b>

Housing: T2 = Tyr 2 / T3 = Tyr 3



**HYGRASGARD® KFF-SD**  
with snap-on lid

**\$188.91**

**HYGRASGARD® KFF**  
without display

**\$202.99**

**HYGRASGARD® KFF**  
with display

**\$262.26**

**HYGRASGARD® KFF-20**  
with display

**\$340.04**

**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 / Readout SI*		Output		Display Housing	Item No.	Price USD
	Humidity	Temperature	Humidity	Temperature			
<b>KFF-SD</b>	<b>(<math>\pm 2,0\%</math>)</b>					<b>IP 43</b> (snap-on lid)	
KFF-SD-I	0...100% RH	-	4...20 mA	-	T1	1201-3182-0000-029	<b>\$188.91</b>
KFF-SD-U	0...100% RH	-	0-10 V	-	T1	1201-3181-0000-029	<b>\$188.91</b>
<b>KFTF-SD</b>	<b>(<math>\pm 2,0\%</math>)</b>					<b>IP 43</b> (snap-on lid)	
KFTF-SD-I	0...100% RH	-35...+75 °C (-31...+167 °F)* -35...+35 °C (-31...+95 °F)* 0...+50 °C (+32...+122 °F)* 0...+80 °C (+32...+176 °F)*	4...20 mA	4...20 mA	T1	1201-3182-1000-029	<b>\$194.09</b>
KFTF-SD-U	0...100% RH	(4x as above)	0-10 V	0-10 V	T1	1201-3181-1000-029	<b>\$194.09</b>

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

Type / WG01	Measuring Range / Readout SI*		Output		Display Housing	Item No.	Price USD
	Humidity	Temperature	Humidity	Temperature			
<b>KFF</b>	<b>(<math>\pm 2,0\%</math>)</b>					<b>IP 65</b>	
KFF-I	0...100% RH	-	4...20 mA	-	T1	1201-3112-0000-029	<b>\$202.99</b>
KFF-I LCD	0...100% RH	-	4...20 mA	-	T1	1201-3112-0200-029	<b>\$262.26</b>
KFF-U	0...100% RH	-	0-10 V	-	T1	1201-3111-0000-029	<b>\$202.99</b>
KFF-U LCD	0...100% RH	-	0-10 V	-	T1	1201-3111-0200-029	<b>\$262.26</b>
<b>KFTF</b>	<b>(<math>\pm 2,0\%</math>)</b>					<b>IP 65</b>	
KFTF-I	0...100% RH	(4x as above)	4...20 mA	4...20 mA	T1	1201-3112-1000-029	<b>\$208.18</b>
KFTF-I LCD	0...100% RH	(4x as above)	4...20 mA	4...20 mA	T1	1201-3112-1200-029	<b>\$267.45</b>
KFTF-U	0...100% RH	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1000-029	<b>\$208.18</b>
KFTF-U LCD	0...100% RH	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1200-029	<b>\$267.45</b>
<b>KFTF-U xx</b>	<b>(<math>\pm 2,0\%</math>)</b>		<b>active / passive</b>			<b>IP 65</b>	
KFTF-U xx	0...100% RH	(4x as above)	0-10 V	0-10 V+ xx	T1	see catalog	from <b>\$216.33</b>

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 / Readout SI*		Output		Display Housing	Item No.	Price USD
	Humidity	Temperature	Humidity	Temperature			
<b>KFF-20</b>	<b>(<math>\pm 1,8\%</math>)</b>					<b>IP 65</b>	
KFF-20-I	0...100% RH	-	4...20 mA	-	T1	1201-3112-0000-030	<b>\$280.78</b>
KFF-20-I LCD	0...100% RH	-	4...20 mA	-	T2	1201-8112-0400-030	<b>\$340.04</b>
KFF-20-U	0...100% RH	-	0-10 V	-	T1	1201-3111-0000-030	<b>\$280.78</b>
KFF-20-U LCD	0...100% RH	-	0-10 V	-	T2	1201-8111-0400-030	<b>\$340.04</b>
<b>KFTF-20</b>	<b>(<math>\pm 1,8\%</math>)</b>					<b>IP 65</b>	
KFTF-20-I	0...100% RH	(4x as above)	4...20 mA	4...20 mA	T1	1201-3112-1000-030	<b>\$308.23</b>
KFTF-20-I LCD	0...100% RH	(4x as above)	4...20 mA	4...20 mA	T2	1201-8112-1400-030	<b>\$364.56</b>
KFTF-20-U	0...100% RH	(4x as above)	0-10 V	0-10 V	T1	1201-3111-1000-030	<b>\$308.23</b>
KFTF-20-U LCD	0...100% RH	(4x as above)	0-10 V	0-10 V	T2	1201-8111-1400-030	<b>\$364.56</b>

Housing: T1 = Tyr 1 / T2 = Tyr 2

HYGRASGARD®  
VFF / VFTF  
stainless steel probe



# HYGRASGARD® SHOWCASE SENSOR PENDULUM ROOM SENSORS



HYGRASGARD® RPFF-SD  
without housing

**\$181.70**



HYGRASGARD® RPFF  
without display

**\$231.14**



HYGRASGARD® RPFF  
with display

**\$289.14**

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. 0.1 inch/2.5 mm) makes it barely noticeable.

HYGRASGARD® VFF HYGRASGARD® VFTF		Showcase humidity sensor, pluggable (±2,0%), Premium Showcase humidity- and temperature sensor, pluggable (±2,0%), Premium					
Type / WG02	Measuring Range / Readout SI*	Output Humidity	Output Temperature	Display Housing	Item No.	Price USD	
<b>VFF</b>	<b>(±2,0%)</b>				<b>IP 65</b> (pluggable)		
VFF-I	0...100% RH –	4...20 mA	–	T1	1201-6122-0000-100	<b>\$538.17</b>	
VFF-I LCD	0...100% RH –	4...20 mA	–	T1	■ 1201-6122-0200-100	<b>\$597.52</b>	
VFF-U	0...100% RH –	0-10 V	–	T1	1201-6121-0000-100	<b>\$538.17</b>	
VFF-U LCD	0...100% RH –	0-10 V	–	T1	■ 1201-6121-0200-100	<b>\$597.52</b>	
<b>VFTF</b>	<b>(±2,0%)</b>				<b>IP 65</b> (pluggable)		
VFTF-I	0...100% RH –35...+75 °C (–31...+167 °F)* –35...+35 °C (–31...+95 °F)* 0...+50 °C (+32...+122 °F)* 0...+80 °C (+32...+176 °F)*	4...20 mA	4...20 mA	T1	1201-6122-1000-100	<b>\$543.01</b>	
VFTF-I LCD	0...100% RH (4x as above)	4...20 mA	4...20 mA	T1	■ 1201-6122-1200-100	<b>\$602.74</b>	
VFTF-U	0...100% RH (4x as above)	0-10 V	0-10 V	T1	1201-6121-1000-100	<b>\$543.01</b>	
VFTF-U LCD	0...100% RH (4x as above)	0-10 V	0-10 V	T1	■ 1201-6121-1200-100	<b>\$602.74</b>	
HYGRASGARD® VFTF-Modbus-T3		Showcase humidity and temperature sensor (±2,0%), Premium					
Type / WG01	Measuring Range / Readout Imperial Temperature	Output	Display Housing	Item No.	Price USD		
<b>VFTF-Modbus-T3</b>	<b>(±2,0%)</b>			<b>IP 65</b> (pluggable)			
VFTF-Modbus-T3	0...100% RH (default) –31...+176 °F 0...560 gr/lb (MV) 0...34.9 gr/ft³ (AH) 0...36.0 Btu/lb (ENT.) +32...+122 °F (DP)	RS485	T3	1201-6256-1000-000	<b>\$629.01</b>		
VFTF-Modbus-T3 LCD	(5x as above)	RS485	T3	■ 1201-6256-1400-000	<b>\$696.89</b>		

HYGRASGARD® RPFF-25  
pluggable measuring head

**\$481.53**

HYGRASGARD® RPFF-25  
pluggable measuring head,  
with display

**\$539.52**



HYGRASGARD®  
RPFTF-Modbus-T3  
without display

**\$344.89**



HYGRASGARD®  
RPFTF-Modbus-T3  
with display

**\$443.86**

HYGRASGARD® RPFF-SD Pendulum room humidity sensors ( $\pm 2,0\%$ ), *Standard*  
 HYGRASGARD® RPFF Premium 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 / Readout SI*	Output	Display	Item No.	Price USD
	Humidity Temperature	Humidity Temperature	Housing		
<b>RPFF-SD / WG01</b>	<b>(<math>\pm 2,0\%</math>)</b>			<b>IP 65</b>	
RPFF-SD-I	0...100% RH -	4...20 mA -	-	1201-1172-0000-150	<b>\$181.70</b>
<b>RPFF / WG01</b>	<b>(<math>\pm 2,0\%</math>)</b>			<b>IP 65</b>	
RPFF-I	0...100% RH -	4...20 mA -	T1	1201-1172-0000-100	<b>\$231.14</b>
RPFF-U	0...100% RH -	0-10 V -	T1	1201-1171-0000-100	<b>\$231.14</b>
RPFF-xx LCD	0...100% RH -	-	T1 ■	Extra charge	<b>\$58.00</b>
<b>RPFTF / WG01</b>	<b>(<math>\pm 2,0\%</math>)</b>			<b>IP 65</b>	
RPFTF-I	0...100% RH -35...+75 °C (-31...+167 °F)* -35...+35 °C (-31... +95 °F)* 0...+50 °C (+32...+122 °F)* 0...+80 °C (+32...+176 °F)*	4...20 mA 4...20 mA	T1	1201-1172-1000-100	<b>\$236.32</b>
RPFTF-U	0...100% RH (4x as above)	0-10 V 0-10 V	T1	1201-1171-1000-100	<b>\$236.32</b>
RPFTF-xx LCD	0...100% RH (4x as above)	-	T1 ■	Extra charge	<b>\$58.00</b>
<b>RPFF-25 / WG02</b>	<b>(<math>\pm 1,8\%</math>)</b>			<b>IP 65 (pluggable)</b>	
RPFF-25-I	0...100% RH -	4... 20 mA -	T2	1201-7122-0000-100	<b>\$481.53</b>
RPFF-25-I LCD	0...100% RH -	4... 20 mA -	T2 ■	1201-7122-0400-100	<b>\$539.52</b>
RPFF-25-U	0...100% RH -	0-10 V -	T2	1201-7121-0000-100	<b>\$481.53</b>
RPFF-25-U LCD	0...100% RH -	0-10 V -	T2 ■	1201-7121-0400-100	<b>\$539.52</b>
<b>RPFTF-25 / WG02</b>	<b>(<math>\pm 1,8\%</math>)</b>			<b>IP 65 (pluggable)</b>	
RPFTF-25-I	0...100% RH (4x as above)	4... 20 mA 4... 20 mA	T2	1201-7122-1000-100	<b>\$506.73</b>
RPFTF-25-I LCD	0...100% RH (4x as above)	4... 20 mA 4... 20 mA	T2 ■	1201-7122-1400-100	<b>\$564.72</b>
RPFTF-25-U	0...100% RH (4x as above)	0-10 V 0-10 V	T2	1201-7121-1000-100	<b>\$506.73</b>
RPFTF-25-U LCD	0...100% RH (4x as above)	0-10 V 0-10 V	T2 ■	1201-7121-1400-100	<b>\$564.72</b>

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 / Readout Imperial	Output	Display	Item No.	Price USD
	Humidity Temperature		Housing		
<b>RPFTF-Modbus-T3</b>	<b>(<math>\pm 2,0\%</math>)</b>			<b>IP 65</b>	
RPFTF-Modbus-T3	0...100% RH (default) -31...+176 °F 0...560 gr/lb (MV) 0...34.9 gr/ft³ (AH) 0...36.0 Btu/lb (ENT.) +32...+122 °F (DP)	RS485	T3	1201-6246-1000-000	<b>\$344.89</b>
RPFTF-Modbus-T3 LCD	(5x as above)	RS485	T3 ■	1201-6246-1400-000	<b>\$443.86</b>
<b>RPFTF-20-Modbus-T3</b>	<b>(<math>\pm 1,8\%</math>)</b>			<b>IP 65</b>	
RPFTF-20-Modbus-T3	(5x as above) -31...+176 °F	RS485	T3	1201-6246-1000-001	<b>\$449.04</b>
RPFTF-20-Modbus-T3 LCD	(5x as above) -31...+176 °F	RS485	T3 ■	1201-6246-1400-001	<b>\$513.36</b>

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

**\$96.60**



**HYGRASREG® RHT**  
with external control dial

**\$246.44**



**HYGRASREG® KH-10**  
with external control dial

**\$266.95**

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 / Readout SI*	Features	Setting	Item No.	Price USD
<b>RH-2 / WG01</b>				<b>IP 30</b>	
RH-2	25...95 % RH	1x Changeover contact	external	1202-40C0-0010-000	<b>\$96.60</b>
RH-2 U	25...95 % RH	1x Changeover contact	internal	1202-40C0-0020-000	<b>\$99.55</b>
<b>RHT / WG02</b>				<b>IP 30</b>	
RHT-1	35...100 % RH, +10...+35 °C (+50...+95 °F)*	Main switch	external	1202-4010-0000-000	<b>\$246.44</b>
<b>KH-10 / WG01</b>				<b>IP 65</b>	
KH-10	35...100 % RH	–	external	1202-3012-0010-000	<b>\$266.95</b>
KH-10 U	35...100 % RH	Setpoint adjuster covered	internal	1202-3012-0020-000	<b>\$264.13</b>



# HYGRASREG® ELECTRONIC



**HYGRASREG® AHT - 30**  
with display and  
plastic sinter filter  
**\$274.47**

**HYGRASREG® AH - 40**  
with display and  
plastic sinter filter  
**\$211.14**

**HYGRASREG® KHT - 30**  
with display and  
plastic sinter filter  
**\$274.47**

**HYGRASREG® KH - 40**  
with display and  
plastic sinter filter  
**\$212.54**

**HYGRASREG® RHT - 30**  
with display and  
external setting  
**\$230.45**

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 hygrometers 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 / Readout SI*	Features	Output	Setting / Display	Item No.	Price USD	
<b>AHT - 30 / WG02</b>						<b>IP 65</b>	
AHT-30W-I LCD	5...95 % RH, -35...+80 °C (-31...+176 °F)*	2x Changeover contact	2x 4...20 mA	internal	1202-7127-2421-000	<b>\$274.47</b>	
AHT-30W-U LCD	5...95 % RH, -35...+80 °C (-31...+176 °F)*	2x Changeover contact	2x 0-10 V	internal	1202-7127-1421-000	<b>\$274.47</b>	
<b>AH - 40 / WG01</b>						<b>IP 65</b>	
AH-40W LCD	5...95 % RH	1x Changeover contact	–	internal	1202-1065-0221-000	<b>\$211.14</b>	
<b>KHT - 30 / WG02</b>						<b>IP 65</b>	
KHT-30W-I LCD	5...95 % RH, -35...+80 °C (-31...+176 °F)*	2x Changeover contact	2x 4...20 mA	internal	1202-8127-2421-000	<b>\$274.47</b>	
KHT-30W-U LCD	5...95 % RH, -35...+80 °C (-31...+176 °F)*	2x Changeover contact	2x 0-10 V	internal	1202-8127-1421-000	<b>\$274.47</b>	
<b>KH - 40 / WG01</b>						<b>IP 65</b>	
KH-40W LCD	5...95 % RH	1x Changeover contact	–	internal	1202-3065-0221-000	<b>\$212.54</b>	
<b>RHT - 30 / WG02</b>						<b>IP 30</b>	
RHT-30W U	5...95 % RH, +5...+45 °C (+41...+113 °F)*	2x Changeover contact	1x 0-10 V	internal	1202-4077-1021-200	<b>\$211.89</b>	
RHT-30W	5...95 % RH, +5...+45 °C (+41...+113 °F)*	2x Changeover contact	1x 0-10 V	external	1202-4077-1011-200	<b>\$214.99</b>	
RHT-30W LCD	5...95 % RH, +5...+45 °C (+41...+113 °F)*	2x Changeover contact	1x 0-10 V	external	1202-4077-1211-200	<b>\$230.45</b>	

# HYGRASGARD® ROOM SENSORS ROOM CONTROL UNITS



HYGRASGARD® FSFM-U

**\$278.74**



HYGRASGARD® RFF

**\$138.40**



HYGRASGARD® RFTF-Modbus  
with display  
and potentiometer

**\$277.81**



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

**\$355.83**

## HYGRASGARD® Room, humidity and temperature sensors or measuring transducers

Type	Measuring Range / Readout SI* Humidity Temperature	Output Humidity Temperature	Display Housing	Item No.	Price USD
<b>RFF / RFTF (WG01)</b>	<b>(± 2,0%)</b>	(+32...+122 °F)*		<b>IP 30, on-wall</b>	
RFF-I	0...100% RH –	–	4...20 mA –	B1	1201-41A2-0000-000 <b>\$138.40</b>
RFF-I LCD	0...100% RH –	–	4...20 mA –	B1 ■	1201-41A2-0200-000 <b>\$202.99</b>
RFF-U	0...100% RH –	–	0-10 V –	B1	1201-41A1-0000-000 <b>\$138.40</b>
RFF-U LCD	0...100% RH –	–	0-10 V –	B1 ■	1201-41A1-0200-000 <b>\$202.99</b>
RFTF-I	0...100% RH 0...+50 °C	–	4...20 mA 4...20 mA	B1	1201-41A2-1000-000 <b>\$142.71</b>
RFTF-I LCD	0...100% RH 0...+50 °C	–	4...20 mA 4...20 mA	B1 ■	1201-41A2-1200-000 <b>\$207.43</b>
RFTF-U	0...100% RH 0...+50 °C	–	0-10 V 0-10 V	B1	1201-41A1-1000-000 <b>\$142.71</b>
RFTF-U LCD	0...100% RH 0...+50 °C	–	0-10 V 0-10 V	B1 ■	1201-41A1-1200-000 <b>\$207.43</b>
RFTF-U xx	0...100% RH 0...+50 °C	–	0-10 V 0-10 V + xx	B1	see catalog from <b>\$190.04</b>
RFTF-U xx LCD	0...100% RH 0...+50 °C	–	0-10 V 0-10 V + xx	B1 ■	see catalog extra charge <b>\$58.00</b>
xx = passive sensor, e.g. Pt100, Pt1000, Ni, LM235Z, NTC					
<b>FSFM / FSFTM (WG02)</b>	<b>(± 3,0%)</b>			<b>IP 20, in-wall</b>	
FSFM-U	0...100% RH –	–	0-10 V –		1201-9121-0000-162 <b>\$278.74</b>
FSFTM-U	0...100% RH 0...+50 °C	–	0-10 V 0-10 V		1201-9121-1000-162 <b>\$287.02</b>

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

Type	Measuring Range / Readout Imperial Humidity Temperature	Output	Display Housing	Item No.	Price USD
<b>RTM 1-Modbus (WG01)</b>	<b>(± 2,0%)</b>			<b>IP 30, on-wall</b>	
RTM1-Modbus	–	+32...+122 °F	RS485	B1	1101-42A6-0000-000 <b>\$134.11</b>
RTM1-Modbus LCD	–	+32...+122 °F	RS485	B1 ■	1101-42A6-2000-000 <b>\$198.56</b>
RTM1-Modbus P	–	+32...+122 °F	RS485	B1	1101-42A6-0001-005 <b>\$176.31</b>
RTM1-Modbus P LCD	–	+32...+122 °F	RS485	B1 ■	1101-42A6-2001-005 <b>\$317.53</b>
<b>RFTF-Modbus-xx (WG01)</b>	<b>(± 2,0%)</b>			<b>IP 30, on-wall</b>	
RFTF-Modbus P	0...100% RH (default) 0...560 gr/lb (MV) 0...34.9 gr/ft³ (AH) 0...36.0 Btu/lb (ENT.) +32...+122 °F (DP)	+32...+122 °F	RS485	B2	1201-42B6-6001-005 <b>\$233.37</b>
RFTF-Modbus P LCD	(5 x as above)	+32...+122 °F	RS485	B2 ■	1201-42B6-7001-005 <b>\$277.81</b>
RFTF-Modbus P 5L	(5 x as above)	+32...+122 °F	RS485		1201-42B6-6119-005 <b>\$300.92</b>
RFTF-Modbus P 5L LCD	(5 x as above)	+32...+122 °F	RS485	B2 ■	1201-42B6-7119-005 <b>\$345.36</b>
RFTF-Modbus P D5	(5 x as above)	+32...+122 °F	RS485		1201-42B6-6012-841 <b>\$268.56</b>
RFTF-Modbus P D5 5L	(5 x as above)	+32...+122 °F	RS485	B2	1201-42B6-6120-841 <b>\$338.93</b>
RFTF-Modbus P T D5 5L	(5 x as above)	+32...+122 °F	RS485	B2	1201-42B6-6121-841 <b>\$355.83</b>
RFTF-Modbus P T	(5 x as above)	+32...+122 °F	RS485		1201-42B6-6047-005 <b>\$247.44</b>
RFTF-Modbus P T LCD	(5 x as above)	+32...+122 °F	RS485	B2 ■	1201-42B6-7047-005 <b>\$291.88</b>
RFTF-Modbus P T 5L	(5 x as above)	+32...+122 °F	RS485		1201-42B6-6051-005 <b>\$317.80</b>
RFTF-Modbus P T 5L LCD	(5 x as above)	+32...+122 °F	RS485	B2 ■	1201-42B6-7051-005 <b>\$362.26</b>
<b>FSFTM-Modbus-xx (WG02)</b>	<b>(± 3,0%)</b>			<b>IP 20, in-wall</b>	
FSFTM-Modbus	(5 x as above)	+32...+122 °F	RS485		1201-9226-1000-162 <b>\$338.07</b>
FSFTM-Modbus P	(5 x as above)	+32...+122 °F	RS485		1201-9226-1400-282 <b>\$365.68</b>
<b>Equipment:</b>	<b>P</b> = Potentiometer (setpoint setter) <b>T</b> = Presence push-buttons	<b>D5</b> = Rotary switch, 5-step <b>5L</b> = LED display, multi-colour (5x)		<b>Housing:</b> <b>B1</b> = Baldur 1 <b>B2</b> = 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)

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

\$121.29

\$137.31



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

\$122.92



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

\$131.43



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

\$205.78



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

\$242.53

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 USD
<b>KW - SD / WG01B</b>						
KW-W-SD	ca. 93 % RH	Changeover contact	internal		IP 54 (snap-on lid) 1202-1075-0001-020	\$122.92
KW-W-SD extern	ca. 93 % RH	Changeover contact	external		1202-1075-0001-040	\$134.58
<b>KW / WG01</b>						
KW-W	ca. 93 % RH	Changeover contact	internal		IP 65 (clear cover) 1202-1025-0001-020	\$131.43
KW-W-extern	ca. 93 % RH	Changeover contact	external		1202-1025-0001-040	\$159.62
<b>TW / WG01</b>						
TW-W	75...100 % RH	Changeover contact	internal		IP 65 (clear cover) 1202-1015-0001-000	\$147.80
TW-W LCD	75...100 % RH	Changeover contact	internal	■	1202-1015-1201-020	\$205.78
TW-U	0...100 % RH	0-10 V	- internal		1201-1011-1001-020	\$153.42
TW-U/W	0...100 % RH	0-10 V + Changeover contact	internal		1202-1012-1001-020	\$175.93
TW-U/W LCD	0...100 % RH	0-10 V + Changeover contact	internal	■	1202-1012-1201-020	\$233.94
TW-W-extern	75...100 % RH	Changeover contact	external		1202-1015-0021-030	\$190.01
TW-W-extern LCD	0...100 % RH	0-10 V + Changeover contact	external	■	1202-1015-0221-030	\$247.99
<b>TW-Modbus-T3 / WG01</b>						
TW-Modbus-T3	Measuring Range / Readout Imperial 0...100 % RH (default) 0...560 gr/lb (MV) 0...34.9 gr/ft³ (AH) 0...36.0 Btu/lb (ENT.) +32...+122 °F (DP)	-31...+176 °F	RS485		IP 65 (Housing Tyr 3) 1201-1281-3001-020	\$221.67
TW-Modbus-T3 LCD	(5 x as above)	(1 x as above)	RS485	■	1201-1281-3401-020	\$285.45
TW-extern-Modbus-T3	(5 x as above)	(1 x as above)	RS485		1201-1281-3001-030	\$242.53
TW-extern-Modbus-T3 LCD	(5 x as above)	(1 x as above)	RS485	■	1201-1281-3401-030	\$289.84
<b>LS / WG01</b>						
LS-2 (2 electrodes)	Conductance > switching threshold	Changeover contact	internal		IP 65 (clear cover) 1202-1042-0000-000	\$121.29
LS-4 (4 electrodes)	Conductance > switching threshold	Changeover contact	internal		1202-1042-0000-100	\$137.31



S+S REGELTECHNIK



The new S+S company headquarters on a total area of 14,000 m<sup>2</sup> in Nordostpark on the outskirts of Nuremberg offers a seamlessly integrated production and development environment with excellent air and road links.

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

Development, manufacturing and sales in Nuremberg are certified by TÜV Thüringen according to DIN EN ISO 9001:2015 (quality management) and DIN EN ISO 14001:2015 (environmental management).

All devices are function tested as well as calibrated in-house prior to shipment and meet strict safety, quality and sustainability standards.



S+S REGELTECHNIK GMBH  
USA DIVISION  
LAS VEGAS, NV 89130

Phone: +1 725 264 4055  
E-Mail: USA@SplusS.com

All information provided without prejudice, technical modifications and price changes reserved. Reprints, even excerpts, are only permitted with the approval of S+S Regeltechnik GmbH.

You can find technical data and further information in our web shop.



Order conveniently online: [www.SplusS.com](http://www.SplusS.com)