Adjustable switching temperature

- Approvals include VDE, BEAB, IMQ and UL recognised
- Applications include control of boilers, washing equipment, industrial and domestic heating, air conditioning

Control Thermostats

- Changeover (SPDT) contacts enable use for both heating and cooling applications
- Supplied with knob and mounting bezel

Safety Limit Stats

- Available with either SPST or SPDT contacts
- Applications where a maximum safety temperature must not be exceeded

Capillary thermostats operate from a remote liquid-filled sensing bulb through a one metre length of capillary tube. Safety thermostats have a temperature limiter with manual reset and positive cut-off activated if the capillary breaks.

Max head temperature Capillary length	150°C 1000mm	Contact rating		15 (2.5)A, 250V ac 10A, 380V ac
Temp. rate of charge Contacts	1°K/min SPDT, silver	Min. capillary bend Spindle rotation	ing radius	5mm 270°
	Temp.	Max. Bulb	Copper Bulb	
Temp. Range	Differential ∆t	Temp.	Dia. L	Order Code
-30°C to +35 °C	1.5 ± 0.5 °K	65°C	6 x 215	732-631
0° C to $+40^{\circ}$ C	2 ± 1 °K	65°C	9.5 x 95	732-643
0°C to +90 °C	4 ± 1 °K	150°C	6.5 x 95	560-248
0°C to +120 °C	4 ± 1 °K	150°C	6.5 x 95	560-250
0°C to +210 °C	9 ± 2 °K	270°C	5 x 136	732-655
0°C to +300 °C	10 ± 2 °K	350°C	3.5 x 195	732-667
				212170/435937

Switching Temp. Range Control Thermostats	Order Code	1+	Price 10+	Each 25+	50+
-30°C to +35 °C	732-631	1,424.00	1,363.00	1,316.00	1,123.00
0°C to +40 ° C	732-643	1,601.00	1,534.00	1,481.00	1,403.00
0°C to +90 °C	560-248	1,390.00	1,323.00	1,261.00	1,123.00
0°C to +120 °C	560-250	1,242.00	1,153.00	1,098.00	1,053.00
0°C to +210 °C	732-655	1,336.00	1,219.00	1,136.00	1,047.00
0°C to +300 °C	732-667	1,336.00	1,219.00	1,136.00	1,047.00
Safety Limit Thermostats					
+90°C to +110 °C, SPST	732-679	1,328.00	1,283.00	1,213.00	1,128.00
+90°C to 110 °C, SPDT	732-680	1,328.00	1,283.00	1,213.00	1,128.00

Humidity and Temperature Sensors

Humidity and Temperature Sensmitter SHT11/15/71/75





- Fully interchangeable, no recalibration
- Ultra fast response time Excellent long term stability
- Pin-Type Package (pluggable)
- Thermally isolated
- For High-End applications

SHT 71 & 51

H = 3.1, W = 5.08, D = 19.5 mm



- SHT 11/15
- Relative humidity&
- temperature Precise dew point calculation
- Fully calibrated
- Ultra fast response

SENSIRION

- Excellent long term
- stability Fully immersible
- Digital 2-wire interface
- Ultra small size
- Cost-effective

SHT 11 & 15

H = 3.1, W = 5.08, D = 7.62mm



- Low cost filter solution
- Provides IP67 protection for SHT11 & SHT15
- Facilitates mounting of SHT11 & SHT15
- 99.99% filteration efficiency @ 0.05 m/s air velocity Response time of 30s in slow mooving air

H = 8.2, W = 9.38, D = 10.12mm

Relative Humidity (RH)

Accuracy:

Response time: Reproducibility: Resolution:

Temperature (T)

Range: Accuracy Reproducibility: Resolution: Operating temperature 0 to 100 % RH ±3.5 % RH (SHT11 / 71) ±2% RH (SHT15 / 75) ≤4 sec. ±0.1 % RH 0.03 % RH

-40 to 120 °C $\pm 0.5\,^{\circ}\mathrm{C}$ @ $25^{\circ}\mathrm{C}$ +0.1 °C 0.01 °C - 40°C to 120°C

Electrical Data

Power consumption Typ. 30 μ W (@ 5V, 12-bit, measure every 2 sec.) Typ. 1 μW (@ 2.4V, 8-bit, measure every 2 min.) Supply voltage range

Input current

During measurement

iii Stariuby	≥0.5 μA		
Туре		Mftrs.List No.	Order Code
SMT. Standard		SHT11	391-3065
SMT. High accuracy		SHT15	413-0674
4-pin single-in-line. Standa	rd	SHT71	413-0686
4-nin single-in-line High ac	curacy	SHT75	413-0698

				234000.341070
Mftrs. List No.	Order Code	1+	Price Each 10+	25+
SHT11 SHT15	391-3065 413-0674	1,051.00 1,337.00	998.00 1,255.00	 1,198.00
SHT71 SHT75	413-0686 413-0698	1,337.00 1,541.00	1,255.00 1,447.00	1,198.00 1,399.00
Filter Cap SF1	750-0725	205.00	196.00	197.00

Humidity Sensors

Resistive Sensor and Module, 20-100% RH Range





- Sensor measures up to 100% relative humidity Can be used in conditions liable to dew conden-
- sation
- Module is temperature compensated Module is easy to install and connect.

Sensor: H = 15, W = 12, D = 4.5, Leads = 24, Lead pitch = 5

Module: L = 35, W = 20, H = 75 (above PCB), Mounting hole dia = 3.2

The module incorporates the 732-837 sensor to give a ready-to-use unit. Resistance of the sensor decreases with increasing RH.

Output voltage of the module (1.5V to 3.1Vdc) corresponds linearly to RH (25 to 100%)

Operating humidity range

Sensor/Module

10% to 100% RH 0°C to $+50^{\circ}\text{C}$ Operating temperature range Measurement accuracy ±5% RH

Sensor

1Vac. 0.3mW Drive voltage, rated power Measuring frequency Impedance (25°C, 50% RH) 50Hz to 1kHz 60K Ω \pm 30K Ω

Module Working voltage

 $5.0 \pm 0.2 Vdc$ -40°C to +85°C Storage temperature Storage humidity 0 to 100% RH Measurement range 25 to 100% RH Current 2mA max. Output voltage 1.5 to 3.1 V

212358

Sensors & Transducers

					2.20
	Price Each				
Order Code	1+	10+	25+	100+	+
732-837	336.00	282.00	247.00	240.00	
122-6685	336.00	282.00	247.00	226.00	
732-849	1,272.00	1,065.00	935.00	831.00	
122-6686	1,272.00	1,065.00	935.00	782.00	
	732-837 122-6685 732-849	732-837 336.00 122-6685 336.00 732-849 1,272.00	Order Code 1+ 10+ 732-837 336.00 282.00 122-6685 336.00 282.00 732-849 1,272.00 1,065.00	Order Code 1+ 10+ 25+ 732-837 336.00 282.00 247.00 122-6685 336.00 282.00 247.00 732-849 1,272.00 1,065.00 935.00	Order Code 1+ 10+ 25+ 100+ 732-837 336.00 282.00 247.00 240.00 122-6685 336.00 282.00 247.00 226.00 732-849 1,272.00 1,065.00 935.00 831.00

Capacitive with Signal Conditioning

Honeywell



(c) TO-39: H=4.6, Dia.=8.3, 6-pin (d) TO-5: H=6.6, Dia.=8.3, 6-pin

- Linear voltage output response to %RH change
- Laser trimmed interchangeability
- High accuracy Fast response
- Stable, low drift performance
 - Chemically resistant
 - Metal can packages available with options of thermally connected temperature

Capacitive relative humidity sensor with integrated signal conditioning. Sensor consists of a planar capacitor with a second polymer layer for protection against dust, dirt, oils and other hazards. Applications include refrigeration, drying, meteorology and battery powered systems.

±2%RH RH @ 0 to 100% RH non-condensing Accuracy Voltage supply 4 to 9V dc. Reference 5V dc Voltage output (typ.) 0.8 to 3.9V dc @ 25°C Operating humidity RH non-condensing -40°C to 85°C Operating temperature Linearity (typ.) ±0.5% RH Repeatability ±0.5 of span

Hysteresis (max.) ±0.8% RH HIH-3602-A: NTC thermistor $100k\Omega$ @ 25° C Integral sensor HIH-3602-C: Platinum RTD 1kΩ @ 0°C

HIH-3602-L=723-4648 Mftrs. List Nos: HIH-3602-A=723-4650 HIH-3602-C=723-4661

Compliant Non-compliant Limited stock - RoHS replac

HS **8**0

300,000 products, stocked and ready to despatch