

Description	Sensor Type	Additional Features	Part No.
Active -	DC 05V / 010V	Probe length 6m	22MT-125
	420mA		22MT-145
Humidity / To	emperature Duct Sens	sor	
· .	DC 05V / 010V		22DTH-11M
Active -	420mA	Probe length 140mm	22DTH-13M
-	MODBUS RTU	——	22DTH-15M
	BACnet MS/TP		22DTH-16M
CO2 Duct Se	nsor		
Active	DC 05V / 010V	Probe length 180mm	22DC-11
HOUVE	420mA	Frobe length roomin	22DC-13
CO2 / Tempe	rature Duct Sensor		
	DC 05V / 010V	Ducks longth 100mm	22DTC-11
Active	420mA	Probe length 180mm	22DTC-13
CO2 / Humid	ity / Temperature Duc	et Sensor	
	MODBUS RTU		22DTM-15
Active	BACnet MS/TP	Probe length 180mm	22DTM-16
CO2 / VOC D	uct Sensor		
Active	DC 05V / 010V	Probe length 180mm	22DCV-11
CO2 / VOC / '	Femperature Duct Ser	1sor	
Active	DC 05V / 010V	Probe length 180mm	22DCM-11
CO2 / VOC /	Mix CO2 + VOC / Tem	perature Duct Sensor	
Active	DC 05V / 010V	Probe length 180mm	22DCK-11
Frost Protect	ion Stat Sensor		
	Ton Other Sonoon	Auto reset, probe length 3m	01DTS- 104
Cuital	Valt free vales NO/NO	Auto reset, probe length 6m	01DTS- 105
Switch	Volt free relay NO/NC	Manual reset, probe length 3m	01DTS- 104X
		Manual reset, probe length 6m	01DTS- 105X

Sensor Adaptors

Sensor Adaptors			
Description	Sensor Type	Additional Features	Part No.
00	1 hole		A-22G-A01.1
20mm adaptor	2 holes	20mm conduit adaptor	A-22G-A02.1
(in bags of 10x)	4 holes		A_22G_A0/L1

















WElectro⊮Controls



Air Quality Transmitters

These products can be used to detect a mixture of pollutant gases in the air i.e. cigarette smoke, odours and other gases generally found within clubs, pubs, restaurants, kitchens, smoking areas etc. The 0-10V DC linear output signal is proportional to the contamination level produced and can be used to control fresh air dampers or fans etc. A solid state element is used to sense contaminant gases.

EAQ...

Transmitters should not be used to detect carbon dioxide (CO2). CO2 transmitters are ideal for use in clean areas i.e.. theatres, conference rooms.

EAQ-R1 Fits square or round outlet box.

EAQ Sensor					
Туре	Accuracy	Supply	Rating	Part No.	
Room	±5%	24V AC/DC	IP30	EAQ-R1	
Duct	±370	24V AC/DC	IP65	EAQ-D1	

Carbon Dioxide Transmitter

These detect the presence of carbon dioxide ONLY and give a 0-10V DC or 4-20mA output signal linear across the range. Suitable for use in clean areas such as no-smoking rooms. theatres, conference rooms etc.

ECD Sensor					
Туре	Accuracy	Supply	Rating	Part No.	
Room	0 2000nnm + 7Ennm	24V AC/DC	IP30	ECD-R1	
Duct	0-2000ppm ±75ppm -	24V AC/DC	IP65	ECD-D1	







CO2, Temperate & RH Transmitters

An accurate and cost effective solution for the HVAC market, with 0-10V outputs for CO2, temp & RH levels. Using the built in volt free contact allows the unit to be easily interfaced with a variety of systems including ventilation, window control, gas safety, or with the optional LCD the unit can simply be used as a traffic light indication to raise awareness of high CO2, temp or RH levels.

Features

- 24V AC/DC power supply
- Optional CO2 readout (Temp & RH on H model only)
- Optional CO2 traffic light indication (can be configured for Temp & RH)
 Mounts onto any standard single gang junction or conduit box
- Volt free contact output based on CO2 (can be configured for Temp & RH)
 UK Manufactured
- Typical 15 year life expectancy
- Self-calibrating CO2 sensor

CO2, Temperate & RH Transmitters	
Description	Part No.
CO2 Transmitter (24V)	CO2T
CO2, Temp & RH Transmitter (24V)	CO2T-H
CO2 & Temp Transmitter c/w 10K3 Thermistor (24V)	CO2T-P3
Temp & RH Transmitter (24V)	RHT
CO2 Transmitter c/w display (24V)	CO2T-L
CO2, Temp & RH Transmitter c/w LCD (24V)	CO2T-HL
CO2 & Temp Transmitter c/w 10K3 Therm & LCD (24V)	CO2T-P3L
Temp & RH Transmitter c/w Display (24V)	RHT-L

Features

- 24V AC/DC power supply
- Volt free contact output based on CO2 (can be configured for Temp & RH)
- Typical 15 year life expectancy
- Self-calibrating CO2 sensor
- 200mm duct probe
- UK Manufactured

CO2, Temperate & RH Transmitters - Duct Mount		
Description	Part No.	
CO2 Transmitter - Duct (24V)	CO2TD	
CO2, Temp & RH Transmitter - Duct (24V)	CO2TD-H	
CO2 & Temp Transmitter c/w 10K3 Therm - Duct (24V)	CO2TD-P3	
Temp & RH Transmitter - Duct (24V)	RHTD	









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Room/Duct Carbon Dioxide Transmitters

High reliability, low maintenance and BSF* compliant. Sontay's new carbon dioxide sensor range uses a non-dispersive infrared sensor for measuring CO2 concentrations in controlled spaces. They deliver accurate measurement and instant control, with long-term stability.

The microprocessor electronics feature a unique self-calibration algorithm that continually adjusts for drift, prevalent in many other sensor types. The operation ensures adequate air quality while maximising energy savings by ventilating at the optimum level. Sensors can be connected to a BMS, using the optional ModBus communications interface for added overall efficiency.

These units are ideal for all types of ventilation in commercial buildings, industrial plants, laboratories and public spaces, such as schools and train stations. * Building Schools for the Future (BSF), Building Bulletin 1 (BB1) compliance.

- Accurate and reliable measurement using NDIR technology
- 10 to 15-year product life time (depending on type)
- RH & Temp. models
- 3-stage status indication on CO2 only models
- 3-colour 'traffic light' status indication LCD with alarm function options
- RS485 ModBus connectivity available
- · Wall and duct models available

Specification

Output signal selectable: 0-10V DC/4-20mA Range: 0 to 2000ppm

Protection: IP65 (duct) IP30 (wall)



Sontay



GS-C02 Series				
Mounting Type	ModBus/BACnet	Mode Button	LED (6) Indication	Part No.
Duct	-	-	-	GS-C02-622
	Yes	-	-	SM-33000
Room	Yes	-	-	SM-130000
	-	-	Yes	GS-C02-1001
	Yes	-	Yes	SM-140000
	-	-	Yes	GS-C02-1001-LED

Room/Duct Carbon Dioxide, RH & Temperature Transmitters

GS-C02 Series				
Mounting Type	Temp Range	ModBus/BACnet	LED Display	Part No.
		-	-	GS-C02-RHT-622
Duct	-20 to +60°C	-	Yes	GS-CO2-RHT-622-LED
		Yes	Yes	SM-36000
		-	-	GS-C02-RHT-1001
Room		Yes	-	SM-150000
		-	Yes	GS-C02-RHT-1001-LED
		Yes	Yes	SM-160000

CO2 & Temperature Sensors

TP Series		
Туре	Output	Part No.
CO2 & Temperature	0-10V	TPVRC02T
CO2 & Temperature	0-10V Resistive & Temperature	TPVRC02-RT*
CO2, Temperature & Humidity	0-10V	TPVRC02HT
CO2, Temperature & Humidity	0-10V & Resistive Temperature	TPVRC02H-RT*
CO2 & Temperature c/w LED indication	0-10V	TPVRC02T/L
CO2 & Temperature c/w LED indication	0-10V Resistive Temperature	TPVRC02-RT/L
CO2, Temperature & Humidity c/w LED indication	0-10V	TPVRC02HT/L
CO2, Temperature & Humidity c/w LED indication	0-10V & Resistive Temperature	TPVRC02H-RT*/L
Battery Powered CO2 indication only	LED indication only	TP-C02-IND/L

* State element type required.

All sensors available in white, grey or black housings.

















Outside Air RH & T Sensors

The RH-632 Duct Mounted Humidity and Temperature Sensors offer the latest technology for high accuracy RH measurement. Units can be ordered with an optional direct resistive temperature output (where this option is required, the type of temperature element MUST be specified at the time of ordering). The RH-632 is also available with additional outputs for enthalpy and dewpoint. Non-standard temperature output ranges can be specified at time of order.

Features

- Snap fit cover
- Fully configurable LCD Display

- · High stability & reliability
- · Long term stability

RH-632 Series		
RH Accuracy	Description	Part No.
	RH & T High accuracy Transmitter	RH-632-AH
. 00/	Direct resistive temperature output	RH-632-AH-T*
± 2%	Enthalpy & dewpoint outputs	RH-632-EN
	Custom Temperature Output	RH-632-AH-TR
	RH & T Transmitter	RH-632
± 3%	Direct resistive temperature output	RH-632-T*
	Custom Temperature Output	RH-632-TR

^{*}Thermistor Type TBA prior to order

Space Mount RH & T Sensors

Using the latest high accuracy RH & T element, the RH-1000 is available with active temperature and RH outputs, as well as a directly connected passive resistive temperature output along with other passive outputs. A multi-line backlit LCD display is also available.

Features

- High stability and reliability
- Selectable 0-10V DC, 0-5V DC or 4-20mA output
- Fully configurable LCD display option

RH-1000 Series	3	
RH Accuracy	Description	Part No.
	RH & T high accuracy transmitter	RH-1000-AH
	Direct resistive temperature output	RH-1000-AH-T*
± 2%	Enthalpy & dewpoint outputs	RH-1000-EN
	Integral LCD for RH & Temp.	RH-1000-AH-LCD
	Custom temperature output	RH-1000-AH-TR
	RH & T transmitter	RH-1000
± 3%	Direct resistive temperature output	RH-1000-T*
	Integral LCD for RH & temp.	RH-1000-LCD
	Custom temperature output	RH-1000-TR

^{*}Thermistor Type TBA prior to order

Wall Mount RH & T Sensors

The RH-631 Duct Mounted Humidity and Temperature Sensors offer the latest technology for high accuracy RH measurement. Units can be ordered with an optional direct resistive temperature output (where this option is required, the type of temperature element MUST be specified at the time of ordering). The RH-631 is also available with additional outputs for enthalpy and dewpoint. Non-standard temperature output ranges can be specified at time of order.

Features

- Snap fit cover
- Fully configurable LCD Display

- · High stability & reliability
- · Long term stability

RH-631 Series			
RH Accuracy	Description	Part No.	
	RH & T High accuracy transmitter	RH-631-AH	
± 2%	Direct resistive temperature output	RH-631-AH-T*	
± 2%	Enthalpy & dewpoint outputs	RH-631-EN	
	Custom temperature output	RH-631-AH-TR	
± 3%	RH & T transmitter	RH-631	
	Direct resistive temperature output	RH-631-T*	
	Custom temperature output	RH-631-TR	

^{*}Thermistor Type TBA prior to order









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Humidistats

Room/Duct Mounted

The RH-SH Humidistats are designed for the on/off control of humidification and dehumidification equipment, or the initiation of alarms or override controls.

Features

- Single and 2-stage units available
- Duct or space mounted units

RH-SH Series			
Туре	Stage Type	Description	Part No.
Room humidistats S	Cinalo	Concealed setpoint	RH-SH-1R
	Single	Exposed setpoint	RH-SH-1RE
Duct humidistats	Single	RH & T transmitter	RH-SH-1D
		Exposed setpoint	RH-SH-1DE





Humidity-Temperature Sensors

The RH-622 duct mounted humidity and temperature sensors offer the latest technology for high accuracy RH measurement. Units can be ordered with an optional direct resistive temperature output (where this option is required, the type of temperature element MUST be specified at the time of ordering). The RH-622 is also available with additional outputs for enthalpy and dewpoint. Non-standard temperature output ranges can be specified at time of order.

Features

- ±2% and ±3% Accuracy versions
- . Snap fit cover
- Fully configurable LCD Display
- Direct thermistor temperature options available
- · High stability & reliability
- Long term stability

RH-622 Series		
RH Accuracy	Description	Part No.
004	RH & T high accuracy transmitter	RH-622-AH
	Direct resistive temperature output	RH-622-AH-T*
± 2%	Enthalpy & dewpoint outputs	RH-622-EN
	Custom temperature output	RH-622-AH-TR
± 3%	RH & T transmitter	RH-622
	Direct resistive temperature output	RH-622-T*
	Custom temperature output	RH-622-TR

^{*}Thermistor Type TBA prior to order



Humidity & Combined Temperature Sensors

Specifications

Output: 4-20mA or 0-10V (Thermistor option for temperature sensor)

Range: 0 to 100% RH / 0-50°C temperature

Accuracy: +/- 2% RH and +/- 0.3°C temperature (@ 25°C between 30 to 70% RH)

Туре	Range	Part No.	
Doom Humidity Consor	4-20mA signal 24V DC supply (2 wire)	TPRH (stat	e colour)
Room Humidity Sensor	0-10V 24V AC/DC supply (3 wire)	TPVRH (stat	e colour)
Doom town (Thermister) & humidity concer	4-20mA 24V DC supply (2+2 wire)	TPRH-RT (stat	e colour)
Room temp (Thermistor) & humidity sensor	0-10V 24V AC/DC (3+2 wire)	TPVRH-RT (stat	e colour)
Daniel daniel (b	4-20mA loop powered 24V DC supply (2+2 wire)	TPRHT/LP (stat	e colour)
Room temp & humidity sensor	0-10V signal only, 24V AC/DC (4 wire)	TPVRHT (stat	e colour)
Dust humidity sensor	4-20mA signal 24V DC supply (2 wire)	TPDH	,
Duct humidity sensor	0-10V signal 24V AC/DC supply (3 wire)	TPVDH	
Duct temp (thermistor) & humidity sensor	4-20mA 24V DC (2+2 wire)	TPDH-RT	
Dust town & humidity concer	4-20mA loop powered 24V DC (2+2 wire)	TPDHT/LP	
Duct temp & humidity sensor	0-10V signal only 24V AC/DC (4 wire)	TPVDHT	
Outoida humiditu aanaar	4-20mA signal 24V DC supply (2 wire)	TP0H	
Outside humidity sensor	0-10V signal only 24V AC/DC supply (3 wire)	TPVOH	
Outside temp (thermistor) & humidity sensor	4-20mA 24V DC (2+2 wire)	TPOH-RT	
Outside temp & humidity sensor	4-20mA loop powered 24V DC (2+2 wire)	TPOHT/LP	















Room / Space Relative Humidity & Temperature Transmitter
High-quality, cost effective room (space) RH&T transmitters available in both 2% and 3% accuracy versions. Jumper-selectable outputs and an optional direct resistance temperature output make these units very flexible solution. The units will fit a standard single-gang back box.

Features

- · Fits a standard single gang back box.
- . High stability & reliability
- 0-5/10V DC or 4-20mA selectable outputs

AX-RHT-0 Se	ries	
RH Accuracy	Description	Part No.
. 00/	0-10V DC / 4-20mA	AX-RHT-S3
± 3%	0-10V DC / 4-20mA + Thermistor	AX-RHT-S3-x
+ 2%	0-10V DC / 4-20mA	AX-RHT-S2
± 270	0-10V DC / 4-20mA + Thermistor	AX-RHT-S2-x

Duct Relative Humidity & Temperature TransmitterDuct mounted RH & T transmitters offer very high-quality sensing for both humidity and temperature. Outputs are individually selectable

for either 4-20mA or 0-10V DC and an optional direct resistive temperature output provides superb flexibility.

Features

- High-quality 316 stainless steel probe
- 2% and 3% RH accuracy available
- · High stability & reliability

AX-RHT-D Series		
RH Accuracy	Description	Part No.
. 00/	0-10V DC / 4-20mA	AX-RHT-D3
± 3%	0-10V DC / 4-20mA + Thermistor	AX-RHT-D3-x
± 2%	0-10V DC / 4-20mA	AX-RHT-D2
	0-10V DC / 4-20mA + Thermistor	AX-RHT-D2-x

Outside Relative Humidity & Temperature Transmitter Wall mounted RH & T transmitters that offer a cost effective solution for RH and temperature measurement. Optional direct resistive

temperature output. Outputs are individually selectable for either 4-20mA or 0-10V DC and an optional direct resistive temperature output provides superb flexibility.

- High-quality 316 stainless steel probe
- 2% and 3% RH accuracy available
- . High stability & reliability

AX-RHT-0 Series		
RH Accuracy	Description	Part No.
00/	0-10V DC / 4-20mA	AX-RHT-03
± 3%	0-10V DC / 4-20mA + Thermistor	AX-RHT-03-x
± 2%	0-10V DC / 4-20mA	AX-RHT-02
	0-10V DC / 4-20mA + Thermistor	AX-RHT-02-x





