2018 Catalog

VCP
Ventilation Control Products Sweden AB

**Sensors, Transmitters, Switches, Detectors, Thermostats, Valves & Actuators
for Building Management Systems (BMS) and HVAC**

Established 2004 - world wide deliveries to more than 70 countries

COW 13F0

COW 1351 MDR

COW 13F0 and COW 1351 MDR are standard types, Other COW types in data sheet

NEW

Features

• Power supply 24 Vac/dc

• IP ratings
  IP65 for enclosure
  IP41 for probe

• MEMS electrochemical sensor

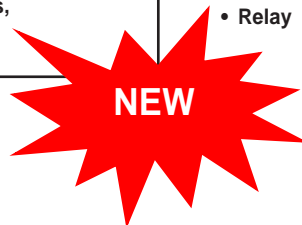• Sensor life time minimum 10 years

COW 13F0:

• Measuring ranges
  0-100 ppm or 0-300 ppm, jumper selectable

• Output
  4-20 mA or 0-10 Vdc, jumper selectable

COW 1351 MDR:

• Measuring range
  0-100 ppm or 0-300 ppm, jumper selectable

• Two Outputs
  4-20 mA and 0-10 Vdc

• Modbus RS485 communication

• LCD Display 12x2

• Relay output, user can set any level

On request

COD 13F0

COD 1351 MDR

COR 13F0

CO detectors for duct mounting COD-series and CO detectors for room mounting COR-series, see data sheets for different types

VCP
Ventilation Control Products

GCO 100

Carbon Monoxide (CO)
sensoras with PCB,
can easily be exchanged

Special filter for IP65 protection
of Carbon Monoxide (CO) gas
sensor head.

Duct Mounting Set DMS 300G

Duct Mounting Set DMS 300G
with Carbon Monoxide (CO)
Gas Detector

Features

• **Output 4-20 mA or 2-10 Vdc**

• **Power supply 24 Vac/dc**

• **Digital measurement value processing incl. temperature compensation**

• **Internal function control with integrated hardware watchdog**

• **Data / measured values in micro controller of sensor unit, therefore simple exchange uncalibrated <> calibrated**

• **High accuracy, selectivity and reliability**

• **Low zero point drift**

• **Hardware & software according to SIL2 compliant development process**

• **Easy maintenance and calibration by exchange of the sensor unit or by comfortable on-site calibration**

• **IP65 enclosure with quick locking screws**

• **Duct Mounting Set availble for measuring of gases in duct**

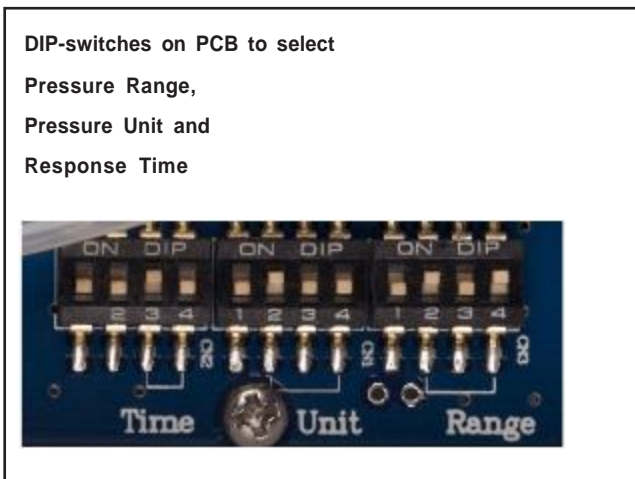| Type no.	Gas type	Range	Sensor Element	Normal Life time
GCO 100	Carbon Monoxide (CO)	0-100 ppm	Electrochemical	72 months
GCO 300	Carbon Monoxide (CO)	0-300 ppm	Electrochemical	72 months
	On request Carbon Monoxide (CO) detectors with ranges 0-150 ppm, 0-250 ppm and 0-500 ppm			
DMS 300G	Duct Mounting Set			

<u>**On request**</u>

Gas Detectors for
CO_2, NO_2, NH_3, O_2 and CH_4

PAT 010
PAT 010D

Features

• **High accuracy +/-1%**

• **Power Supply and Output**
   16-30 Vac/dc with 0-10 Vdc (3-wire) for PAT 010D
   12-30 Vdc with 4-20 mA (2-wire) for PAT 420D

• **LCD digital display**

• **Including duct fixing kit**
   2 plastic tubes with integrated mounting plate,
   2 metres PVC hose and
   4 screws

• **Including mounting bracket**

• **IP54 protection**

DIP-switches on PCB to select

Pressure Range,

Pressure Unit and

Response Time

Pressure ranges

10 pressure ranges in same unit selectable
via DIP-switches on pcb.

Full range:
0 to 100 Pa, 0 to 250 Pa, 0 to 500 Pa,
0 to 750 Pa or 0 to 1000 Pa

Bi-directional:
-50 to +50 Pa , -125 to 125 Pa, -250 to +250 Pa,
-375 to +375 Pa or -500 to +500 Pa

Pressure Units

Other pressure units than Pa are available and
selectable via DIP switches on pcb
mmHH2O, mbar, inWG, mmHG, daPa, Kpa, hPa

Response Times

Response time selectable via DIP switches on pcb
0.5 ,1.0, 2.0 or 4.0 seconds

_____

Type no.	Description

_____

PAT 010D   Flexible & Multi Functional Air Differential PressureTransmitter 0-10 Vdc output

PAT 420D   Flexible & Multi Functional Air Differential PressureTransmitter 4-20 mA output

_____

Air Differential Pressure Transmitters with 0-10 Vdc or 4-20 mA Output

984M.533104

Features

- Selectable output via jumper
  0-10 Vdc or 4-20 mA output, 3-wire
  with power supply 24 Vac/dc

- 4-20 mA output, 2-wire
  with power supply 24 Vdc

- Pressure ranges
  from 0-100 Pa up to 0-250 kPa

- 2 adjoining pressure ranges in one unit,
  pressure ranges selectable via jumper

- With out display as standard

- On request LED display
  (only available on the 3-wire version)

- Including duct fixing kit
  2 plastic tubes with integrated mounting plate,
  2 metres PVC hose and
  4 screws

Type no.	Analogue output 1	Analogue output 2	Pressure range 1	Pressure range 2	Conn.	Power supply	LED display	Switch. output
984M.523104	0-10 Vdc	4-20 mA	0 to 100 Pa	0 to 250 Pa	3-wire	24 Vac/dc	no	yes
984M.533104	0-10 Vdc	4-20 mA	0 to 250 Pa	0 to 500 Pa	3-wire	24 Vac/dc	no	yes
984M.543104	0-10 Vdc	4-20 mA	0 to 500 Pa	0 to 1.000 Pa	3-wire	24 Vac/dc	no	yes
984M.553104	0-10 Vdc	4-20 mA	0 to 1 kPa	0 to 2.5 kPa	3-wire	24 Vac/dc	no	yes
984M.573104	0-10 Vdc	4-20 mA	0 to 5 kPa	0 to 10 kPa	3-wire	24 Vac/dc	no	yes
984M.593104	0-10 Vdc	4-20 mA	0 to 25 kPa	0 to 50 kPa	3-wire	24 Vac/dc	no	yes
984M.5B3104	0-10 Vdc	4-20 mA	0 to 100 kPa	0 to 250 kPa	3-wire	24 Vac/dc	no	yes
984M.523204	4-20 mA		0 to 100 Pa	0 to 250 Pa	2-wire	24 Vdc	no	no
984M.533204	4-20 mA		0 to 250 Pa	0 to 500 Pa	2-wire	24 Vdc	no	no
984M.543204	4-20 mA		0 to 500 Pa	0 to 1.000 Pa	2-wire	24 Vdc	no	no
984M.553204	4-20 mA		0 to 1 kPa	0 to 2.5 kPa	2-wire	24 Vdc	no	no
984M.573204	4-20 mA		0 to 5 kPa	0 to 10 kPa	2-wire	24 Vdc	no	no
984M.593204	4-20 mA		0 to 25 kPa	0 to 50 kPa	2-wire	24 Vdc	no	no
984M.5B3204	4-20 mA		0 to 100 kPa	0 to 250 kPa	2-wire	24 Vdc	no	no

On request:
with LED display

On request:
customized pressure ranges
-50 Pa to +50 Pa, -100 Pa to +100 Pa, -500 Pa to +500 Pa, 0 to -50 kPa etc.

930.83 222511

DFK 200

Features

- **On/off output**

- **Electrical rating 250 Vac**

- **7 different pressure ranges
  from 20-200 Pa up to 1.000-4.000 Pa**

- **Switching pressure can easily be
  adjusted on a scaled adjustment knob**

- **Static, over, differential pressure and vaccum**

- **IP54 protection**

Can be deliveried in 3 different alternatives

1. Only the pressure switch

2. The pressure switch separately packed
   and the duct fixing kit separately packed.

3. The pressure switch and the duct fixing kit
   packed together in one carton.

Type no.	Adjustment pressure range	Switching differential	Output	Electrical rating	
Air differential pressure switch					
930.80 222511	20–200 Pa	10 Pa	on/off	250 Vac	
930.80 222511N	20–300 Pa	10 Pa	on/off	250 Vac	
930.84 222511	30– 400 Pa	15 Pa	on/off	250 Vac	**Special Net**
930.83 222511	50– 500 Pa	20 Pa	on/off	250 Vac	
930.85 222511	200–1.000 Pa	100 Pa	on/off	250 Vac	
930.86 222511	500–2.500 Pa	150 Pa	on/off	250 Vac	
930.87 222511	1000–4.000 Pa	250 Pa	on/off	250 Vac	
DFK 200	Duct fixing kit includes 2 plastic tubes with integrated mounting plate, 2 metres PVC hose and 4 screws				
Air differential pressure switch with duct fixing kit (DFK 200), packed together into a carton.					
930.80 222534	20–200 Pa	10 Pa	on/off	250 Vac	
930.80 222534N	20–300 Pa	10 Pa	on/off	250 Vac	
930.84 222534	30– 400 Pa	15 Pa	on/off	250 Vac	**Special Net**
930.83 222534	50– 500 Pa	20 Pa	on/off	250 Vac	
930.85 222534	200–1.000 Pa	100 Pa	on/off	250 Vac	
930.86 222534	500–2.500 Pa	150 Pa	on/off	250 Vac	
930.87 222534	1000–4.000 Pa	250 Pa	on/off	250 Vac	

RHT 010 010 D with display

RHT 010 010 without display

Features

• **Humidity and Temperature outputs in same unit**

• **Humidity output 0-10 Vdc or 4-20 mA**

• **Temperature output 0-10 Vdc or 4-20 mA**

• **Passive temperature sensing element**
  PT1000, PT100, NTC 10K, NTC 20K, NTC 1.8K , NI1000
  etc as option

• **With or without display**

• **Humidity accuracy ± 2% at 20 to 80% rH**

• **Temperature accuracy   0,3K (+5°C to 60°C) + 1.5% f.s**

• **4 selectable temperature ranges via DIP switches**

• **DIP switch on pcb to select:**
  - **Relative Humidity,**
  - **Absolute Humidity**
  - **Dew Point or**
  - **Enthalpy**

Type no.	Humidity output	Temp. output	Passive temp. sensing element	Display
RHT 010 010	0-10 Vdc	0-10 Vdc	No	No
RHT 010 010 D	0-10 Vdc	0-10 Vdc	No	Yes
RHT 420 420	4-20 mA	4-20 mA	No	No
RHT 420 420 D	4-20 mA	4-20 mA	No	Yes
RHT 010 010 XXX	0-10 Vdc	0-10 Vdc	Yes	No
RHT 010 010 XXX D	0-10 Vdc	0-10 Vdc	Yes	Yes
RHT 420 420 XXX	4-20 mA	4-20 mA	Yes	No
RHT 420 420 XXX D	4-20 mA	4-20 mA	Yes	Yes

XXX = passive temperature sensing element
PT100, PT100 1/3 DIN,
PT1000, PT1000 1/3 DIN,
NI1000, NI1000/TK5000,
NTC 1.8K, NTC 5K, NTC 10K, NTC 20K, KTY81-210

Example:
Humidity output 0-10 Vdc, Temperature Output 0-10 Vdc PT1000 passive temperature sensing element and display,
type is : **RHT 010 010 PT1000 D**

Features

- **Humidity and Temperature outputs in same unit**

- **With or without display**

- **Humidity output 0-10 Vdc or 4-20 mA**

- **Temperature output 0-10 Vdc or 4-20 mA**

- **Passive temperature sensing element
  PT1000, PT100, NTC 10K, NTC 20K, NTC 1.8K ,
  NI1000 etc as option**

- **Humidity tolerance ± 2% at 20 to 80% rH**

- **Temperature tolerance ± 0,5K**

- **4 selectable temperature ranges via DIP switches**

- **DIP switch on pcb to select:**
  - **Relative Humidity,**
  - **Absolute Humidity**
  - **Dew Point or**
  - **Enthalpy**

- **Including duct mounting flange**

- **IP65 protection**

DHT 010 010D with display

DHT 010 010 without display

Type no.	Humidity output	Temp. output	Passive temp. sensing element	Display
DHT 010 010	0-10 Vdc	0-10 Vdc	No	No
DHT 010 010 D	0-10 Vdc	0-10 Vdc	No	Yes
DHT 420 420	4-20 mA	4-20 mA	No	No
DHT 420 420 D	4-20 mA	4-20 mA	No	Yes
DHT 010 010 XXX	0-10 Vdc	0-10 Vdc	Yes	No
DHT 010 010 XXX D	0-10 Vdc	0-10 Vdc	Yes	Yes
DHT 420 420 XXX	4-20 mA	4-20 mA	Yes	No
DHT 420 420 XXX D	4-20 mA	4-20 mA	Yes	Yes

XXX = passive temperature sensing element
PT100, PT100 1/3 DIN,
PT1000, PT1000 1/3 DIN,
NI1000, NI1000/TK5000,
NTC 1.8K, NTC 5K, NTC 10K, NTC 20K, KTY81-210

Example:
Humidity output 0-10 Vdc, Temperature Output 0-10 Vdc PT1000 passive temperature sensing element and display,
type is : **DHT 010 010 PT1000 D**

VCP
Ventilation Control Products

Features

• **Humidity and Temperature outputs in same unit**

• **Humidity output 0-10 Vdc or 4-20 mA**

• **Temperature output 0-10 Vdc or 4-20 mA**

• **Passive temperature sensing element
  PT1000, PT100, NTC 10K, NTC 20K, NTC 1.8K , NI1000
  etc as option**

• **With or without display**

• **Humidity accuracy ± 2% at 20 to 80% rH**

• **Temperature accuracy 0,3K (+5°C to 60°C) + 1.5% f.s**

• **4 selectable temperature ranges via DIP switches**

• **DIP switch on pcb to select:**
        - Relative Humidity,
        - Absolute Humidity
        - Dew Point or
        - Enthalpy¨

• **IP65 protection**

OHT 010 010 D with display

OHT 010 010 without display

Type no.	Humidity output	Temp. output	Passive temp. sensing element	Display
OHT 010 010	0-10 Vdc	0-10 Vdc	No	No
OHT 010 010 D	0-10 Vdc	0-10 Vdc	No	Yes
OHT 420 420	4-20 mA	4-20 mA	No	No
OHT 420 420 D	4-20 mA	4-20 mA	No	Yes
OHT 010 010 XXX	0-10 Vdc	0-10 Vdc	Yes	No
OHT 010 010 XXX D	0-10 Vdc	0-10 Vdc	Yes	Yes
OHT 420 420 XXX	4-20 mA	4-20 mA	Yes	No
OHT 420 420 XXX D	4-20 mA	4-20 mA	Yes	Yes

XXX = passive temperature sensing element
PT100, PT100 1/3 DIN, PT1000, PT1000 1/3 DIN, NI1000, NI1000/TK5000, NTC 1.8K, NTC 5K, NTC 10K, NTC 20K, KTY81-210

Example:
Humidity output 0-10 Vdc, Temperature Output 0-10 Vdc PT1000 passive temperature sensing element and display,
type is : **OHT 010 010 PT1000 D**

VCP
Ventilation Control Products

HRS 1ES

HRS 1CS

Features

- **Humidifying or dehumidifying, selectable via terminal wiring on pcb**

- **Setting range 25 to 95% r.H.**

- **Set point**
    - **Exposed set point for HRS 1ES**
    - **Concelaed set point for HRS 1CS**

- **Power supply 24 Vac/dc**

Type no.	Description	EURO price
HRS 1ES	Mechanical room hygrostat, 1 step, exposed set point	
HRS 1CS	Mechanical room hygrostat, 1 step, concelaed set point	

QRT

QDT

Features

- **Used to determine the air quality,
  based on a mixed gas sensor (VOC sensor)**

- **VOC = Volatile Organic Compounds**

- **To measure the air quality in
  offices, hotels, meeting rooms, convention centres,
  schools, airports, apartments, stores, restaurants etc.**

- **0-10 Vdc or 4-20 mA output (selectable)**
  0-10 Vdc: 0 Vdc = clean air, 10 Vdc = polluted air
  4-20 mA: 4 mA = clean air, 20 mA = polluted air

QRT (room):

- **IP30 plastic enclosure**

- **On request:**
- **change-over contact**
- **change-over contact
  and with "traffic light" 5 coloured LED´s**
- **change-over contact
  and with "traffic light" 5 coloured LED´s
  and with potentiometer**
- **stainless steel enclosure**

QDT (duct):

- **Including duct mounting flange**

- **IP65 enclosure with quick locking screws**

- **On request:**
- **change-over contact**

Detectable VOC gases

• Cigarette smoke	• Hydrogen sulfide
• Automobile exhaust	• Isobutane
• Breath air	• Methane
• Carbon dioxide (CO$_2$)	• Methanol
• Carbon monoxide (CO)	• Methyl chloride
• Solvent fumes	• Methylene chloride
• Alcohol fumes	• Methy ether
• Acetone	• Methyl acetate
• Acrylonitrile	• Methyl ethyl ketone
• Ammonia	• n-Hexane 2
• Benzene	• n-Petane
• Chlorine	• Propane
• Dimethyl amine	• R-11
• Ethane	• R-12
• Ethylene	• R-502
• Ethylene oxide	• R-123
• Formaldehyde	• Sulfur dioxide
• Hydrogen	• Vinyl chloride

_____

Type no.	Description
QRT	Room Air Quality (VOC) transmitter, output 0-10 Vdc or 4-20 mA (jumper selectable)
QDT	Duct Air Quality (VOC) transmitter, output 0-10 Vdc or 4-20 mA (jumper selectable)

_____

CDR 010T

Features

• **Carbon Dioxide (CO$_2$) + Temperature (T) transmitter for room mounting**

• **CO$_2$ measuring range 0-2.000 ppm**

• **CO$_2$ output 0-10 Vdc**

• **CO$_2$ accuracy +/-70 ppm plus 5% of measured value**

• **Temperature measuing range 0 to +50°C**

• **Temperature output 0-10 Vdc**

• **Deviation temperature +/- 0.8 K at 20°C**

• **Power supply 24 Vac/dc**

• **Encloure material ABS Plastic
  On request: Stainless steel**

Type no.	Description
CDR 010T	Room CO$_2$ +Temperature transmitter 2 x 0-10 Vdc, 0-2000 ppm

CDK 24 010

Features

• **CO$_2$ range 0-2000 ppm or 0-5000 ppm, jumper selectable**

• **Accuracy ± 30 ppm ± 3% of measured value**

• **Output 0-10 Vdc or 4-20 mA, jumper selectable**

• **Change over contact**

• **Optical NDIR sensor
  (non-dispersive Infra-red technology)**

• **Self Calibrating**

• **Including duct mounting flange**

• **IP65 enclosure with quick locking screws**

• **CDK 24 with out display and CDK 24D with display**

Type no.	Description
CDK 24	Duct CO$_2$ transmitter 0-10 Vdc or 4-20 mA, 0-2000 ppm or 0-5000 ppm, change over contact
CDK 24D	same as CDK 24 and with display

Carbon Dioxide (CO₂) + Temperature (T) + Humidity (rH)

transmitter with Display for room mounting

Ventilation Control Products

RCD 010 THD

Features

- **Carbon Dioxide (CO₂) output 0-10 Vdc**

- **Temperature (T) output 0-10 Vdc**

- **Humidity (rH) output 0-10 Vdc**

- **With Display to show actual value of CO₂+T+rH**

- **Carbon Dioxide (CO₂) sensor**
  NDIR Sensor with auto calibration

- **Carbon Dioxide (CO₂) ranges**
  0-2000 ppm or 800 to 1200 ppm, jumper selectable

- **Carbon Dioxide (CO₂) accuracy**
  ±50 ppm ± 4% (25°C / 1013 mbar)

- **Temperature (T) accuracy ± 0.5°K (+10°C to +40°C)**

- **Humidity (rH) accuracy ± 2% (20 to 80% rH)**

- **DIP switch on pcb to select:**
  - Relative Humidity,
  - Absolute Humidity,
  - Dew Point or
  - Enthalpy

- **Passive temperature sensing element**
  PT1000, PT100, NTC 10K, NTC 20K, NTC 1.8K ,
  NI1000 etc as option

Type no.	Description

| **RCD 010 THD** | Carbon Dioxide (CO₂) + Temperature (T) + Humidity (rH) transmitter with Display for room mounting |

RCD 010 THD is the standard type,
other types are manufactured and supplied on request.

For example without display, without humidity output and
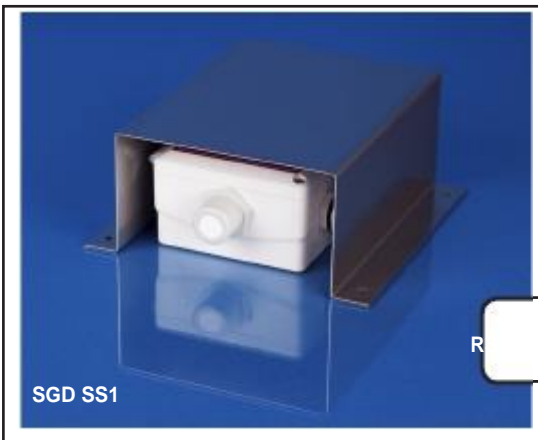without temperature output, see data sheet for all different types.

Type no.	Description

TDN NTC 10K 200   Duct temperature sensor, NTC 10K, IP65, probe lenght 200 mm

TDN PT1000 200   Duct temperature sensor, PT1000, IP65, probe lenght 200 mm

The duct temperature sensor TDN have neoprane gasket
for good sealing into duct.

DMF   Duct Mounting Flange

Duct mounting flange DMF can be used to adjust insertion lenght

TRN NTC 10K   Room temperature sensor, NTC 10K

TRN PT1000   Room temperature sensor, PT1000

TIN NTC 10K 100   Immersion temperature sensor, NTC 10K, IP65, probe lenght 100 mm

TIN PT1000 100   Immersion temperature sensor, PT1000, IP65, probe lenght 100 mm

SSP 100   Immersion pocket, stainless steel (s/s), lenght 100 mm
BSP Thread Type, British Standard Pipe Thread

TSN NTC 10K 1M   Strap-on temperature sensor, NTC 10K, cable lenght 1 meter

TSN PT1000 1M   Strap-on temperature sensor, PT1000, cable lenght 1 meter

The strap-on temperature sensor TSN is included
300 mm adjustable strap-on band, for pipe diameter 13 to 92 mm (1/4" to 3").

TON NTC 10K 2M   Outdoor temperature sensor, NTC 10K, IP65, cable lenght 2 meters

TON PT1000 2M   Outdoor temperature sensor, PT1000, IP65, cable lenght 2 meters

Temperature Transmitters with active output 0-10 Vdc and 4-20 mA avalable, ask for price.

Ventilation Control Products

Features

RSS 100

P

- Weather Sensor Shield
- Protection from rain and radiated heat
- 6 plates
- To be assemblied on wall or on pipe/mast
- Suitable on pipe/mast diameters from 20 mm to 40 mm
- Suitable for different sensor probe diameters
- Photo show weather sensor shield RSS 100 assemblied together with VCP outdoor humidity/temperature transmitter.

Features

SGD SS1

R

- Sensor guard in parking garage
- Sensor guard in ball game halls
- Sunshade and weather protection for outside wall mounted sensors
- Stainless steel
- Size 184 x 180 x 80 mm
- Simple mounting
- Photo show sensor guard SGD SS1 together with VCP carbon monoxide gas detector.

Features

SGD MS1

- Sensor guard for room/space sensors
- Sensor guard in ball game halls
- Robust construction
- Powder coated mild steel
- Size 122 x 130 x 55 mm
- Simple mounting
- Photo show sensor guard SGD MS1 together with VCP room humidity/temperature transmitter

Features

Manufactured on request.
Prices depends on sensor/transmitter type and on the quantities.

- Stainless steel room/wall enclosure, to be used in
  ball game halls, miltary baracks or any room or area where robust enclosure is required.

- Available for:
  - Temperature sensors/transmitters
  - Humidity/temperature transmitters
  - Air Quality (VOC) transmitters
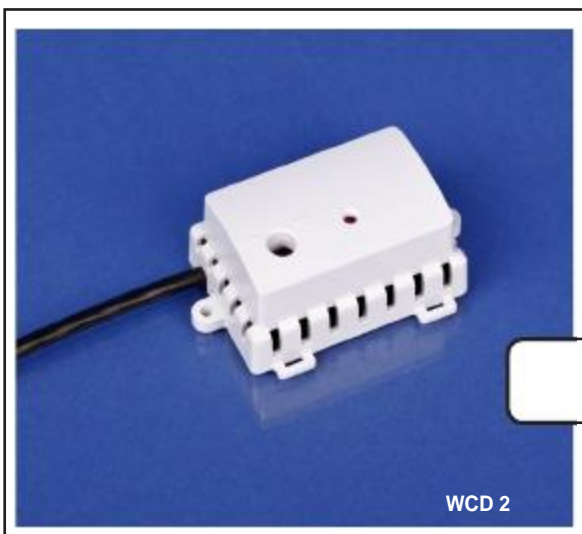 - Carbon Dioxide transmitters

WCS 24S

WCS 24C

WCD 2

Features

- **Prevents "indoor rain" condensation**
- **Enables optimal efficiency for chilled beam applications**
- **Early detection of condensation danger**
- **High accuracy and long term stability**
- **Compact design**
- **Fast response time**
- **Easy mounting and connecting**
- **LED status indication**

Applications

- Chilled ceilings
- Heating-, ventilation- and air conditioning systems
- Switching and electronics cabinets
- In swimming pools or on shop windows around the glazing fogging with optimized use of energy or to keep free of ice.
- In water treatment plants or industrial plants to "sweating" of cold pipeline networks to detect.
- In hangars and storage rooms to prevent condensation on cold outside walls or steel doors and to protect the masonry.
- In control cabinets or machines in order to detect condensation on sensitive electronic components.

Features

- **Prevents "indoor rain" condensation**
- **Enabless optimal efficiency for chilled beam applications**
- **Low smoke & fume flying lead cable**
- **Volt Free Contact or current output**
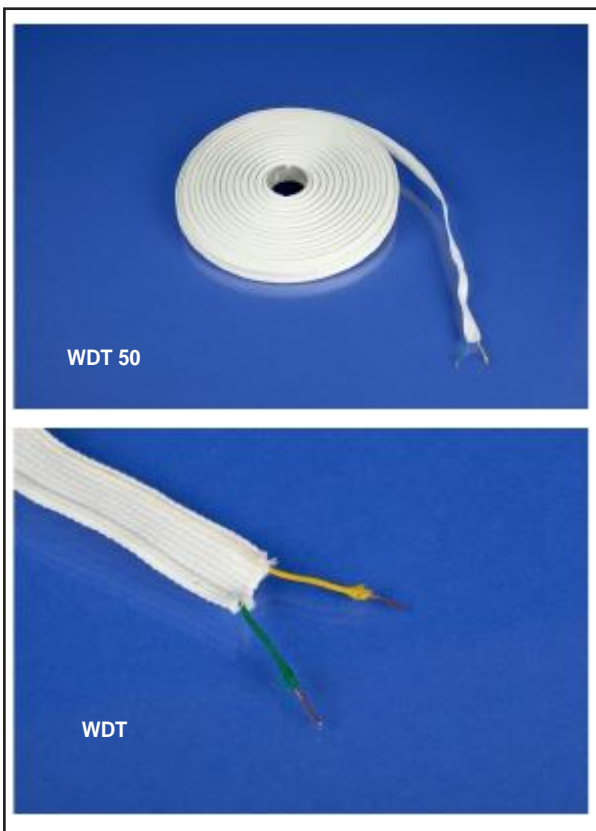- **Adjustable set point**
- **Operates on calculated dew point**

WWD 102N
without buzzer

WWD 103N
with buzzer

WDT 50

WDT

Features

- **Early detection = Early warning**

- **Detection of moisture and water**

WWD, water warning detector

- **Mounting:**
- **On wall with the external water detection tape WDT**
- **Direct on floor**
  (WWD have 2 sensing pins under the unit)

- **WWD senses the change in conductivity when**
  moisture or water is in contact with the sensing
  pins and when moisture or water is in contact with
  the external water detection tape WDT

- **Microprocessor based**

- **Power supply 12-30 Vac/dc**

- **Relay output**

- **Buzzer (WWD 103N)**

WDT, water detection tape

- **WDT water detection tape is made of texturiced**
  stockinet-knitted polyester in which parallel
  uninsulated wires of soft annealed copper are woven

- **Indicates presence of**
  water or moisture between the wires

- **The water detection tape WDT can be used with**
  the water warning detector WWD

- **WDT are available in standard lengths (rolls) of**
  25 and 50 metres or per meter below 25 meters.

- **Lengths of band can be connected by using**
  connection sleeves and clamping tong

Type no.	Description
WWD 102N	Water warning detector 12-30 Vac/dc, relay output
WWD 103N	Water warning detector 12-30 Vac/dc, relay output with buzzer
WDT 25	A roll of 25 meters water detection tape
WDT 50	A roll of 50 meters water detection tape
WDT	Water detection tape if order other lengths less than 25 meters

VCP

Ventilation Control Products

VSD 301
VSD 301

• **Early warning of smoke and fire**

• **Sensing smoke directly in the duct**
  without help of built-in fan in the detector -
  No use of sampling tubes -
  A true duct smoke detector !!!

Features

• **IR-detection (obscuration)**

• **Outputs**
  Relay   SPDT 1A@24Vdc, 120 Vac
  Analogue   2-10 Vdc

• **Analogue output status levels**
  < 2 Vdc   Sensor fault
  < 3-7 Vdc   Normal operation
  < 7-9 Vdc   Optics require cleaning
  > 9,5 Vdc   Smoke alarm

• **The analogue output signal 2-10 Vdc can transmit**
  smoke or service alarm (dirt level) to BEMS system

• **Relay output for closing fan/damper motor**

• **Damped or undamper output (jumper selection)**

• **Manual or auto reset (jumper selection)**

• **Reset button in front of enclosure**

• **Power supply 24 Vac/dc**

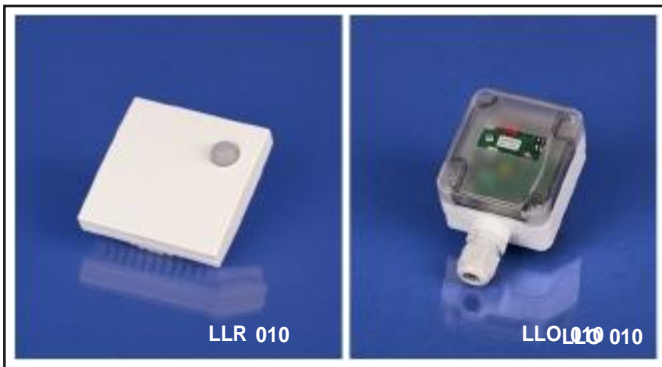| Type no.	Description
VSD 301	Duct smoke detector, 300 mm probe length

FWD 305

The room smoke detector FWD 305-series
is an optical room smoke detector type,
optical room smoke detector type is also named
as photoelectric room smoke detector type.

Features

• **Early warning of smoke and fire**

• **Optical (photoelectric) smoke chamber**

• **Fire alarm siren**

• **Alarm relay output**

• **Inter connection with other detectors**

• **Test button**

• **Micro processor**

• **8 seconds delay before the relay activates**

• **Power supply 12-24 Vdc**
  24 Vac and 48 Vdc as option

• **Battery back-up as option**

• **Error alarm output as option**

Type no.	Description
FWD 305	Room smoke detector with fire alarm siren and alarm relay output NO/NC, power supply 12-24 Vdc

LLR 010 LLO 010

Features

- **Selectable ranges via DIP switches:**

LLR:	LLO:
0 to 500 Lux	0 to 500 Lux
0 to 1 kLux	0 to 1 kLux
0 to 5 kLux	0 to 2 kLux
0 to 20 kLux	0 to 5 kLux
	0 to 20 kLux
	0 to 60 kLux

- **Output**
   0-10 Vdc for LLR 010 and LLO 010
   4-20 mA for LLR 420 and LLO 420

- **Accuracy < +/- 5% of final value**

- **Active control of artificial lighting**

- **Maximum energy efficiency**

- **Optimise light levels**

Type no.	Description
LLR 010	Room light level transmitter 0-10 Vdc output
LLR 420	Room light level transmitter 4-20 mA output
LLO 010	Outdoor light level transmitter 0-10 Vdc output
LLO 420	Outdoor light level transmitter 4-20 mA output

FAPS

Features

- **Monitoring of flow and non-agressive gaseous**
- **IP65 plastic housing**
- **Base in galvanised steel**
- **Moving arm in brass**
- **Vane in stainless steel**

Application

Air flow paddle switch FAPS is intended to monitor air flow and non-agressive gaseous within a duct and provides a switched output on detection of either a specified air velocity or flow failure.

Type no.	Description	Min. switch on	Min. switch off	Max. switch on	Max. switch off
FAPS	Air Flow Paddle Switch	2.5 m/sec	1.0 m/sec	9.2 m/sec	8.0 m/sec

TST8MV

TOUCH SCREEN !!!

Features

- **Bright back-lit display with interactive touch screen**

- **Adjustable manual 3-speed or automatic fan speed control, High, Medium and Low**

- **Setting point range +10 to +30°C**

- **Accuracy +/-1 °C**

- **NTC thermistor sensing element**

- **Power supply 220 Vac**

- **Setting Turn on/off within 24 hours**

- **Data Memory:**
  If the power cut off accidentally, it could be continuing to work by order if the power returns

- **Attractive modern styling and smart outlooking (12 mm only for surface board)**

Available for:

- **Fan coil unit**
- **Two-line Motorized Valve**
- **Three-line Motorized Valve**
- **Solenoid Valve**
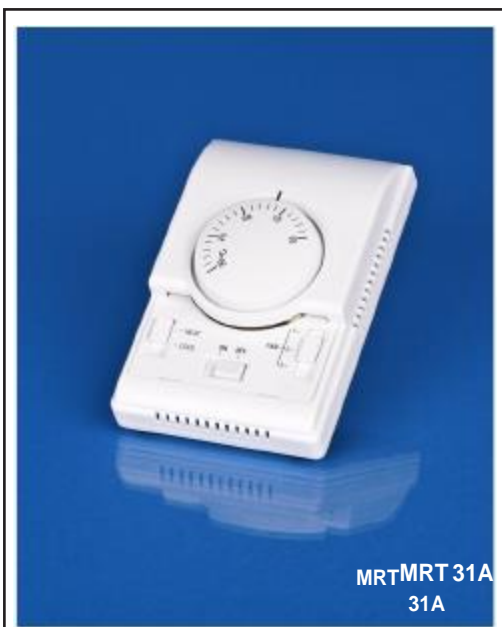- **Heating Equipment**
- **Three-speed angle fan valve**

Type no.	Description

Touch Screen Thermostat, Heating Cooling

Type no.	Description
TST 8A	2-pipe system, controls fan coil and 2-wire motorized valve with 3 Fan Speed
TST 8B	Controls on/off (open/close) valve
TST 8C	2-pipe system, controls fan coil and 3-wire motorized valve with 3 Fan Speed
TST 8D	Controls on/off (0 to 30°C, 0 to 60°C 0 to 90 °C) damper
TST 8E	Four-pipe systems, controls fan coil and 2-wire or 3-wire motorized valve with 3 Fan Speed.
TST 8MV	Modulating 0-10 Vdc with 3 Fan Speed.

ETL 9A

Features

• **3 speed fan switch (HIGH-MED-LOW)**

• **LCD display with blue backlight**

• **Setting point range +5 to +35°C**

• **Power supply 220 Vac**

• **NTC thermistor sensing element**

• **4 different models:**

  ETL 9A: 2-line Motorized Valve and Fan Coil Unit

  ETL 9B: On/Off Motorized Damper Valve

  ETL 9C: 3-line Motorized Valve, Fan Coil Unit

  ETL 9E: For 4-pipe system (2 Motorized Valves + Fan Coil Unit)

Type no.   **Description**

Room Thermostat 3-speed (High-Med-Low) with LCD display

ETL 9A	2-line Motorized Valve and Fan Coil Unit
ETL 9B	On/Off Motorized Damper Valve
ETL 9C	3-line Motorized Valve, Fan Coil Unit
ETL 9E	For 4-pipe system (2 Motorized Valves + Fan Coil Unit)

MRT 31A

Features

• **Fan speed switch**
  - 3 speed (HIGH-MED-LOW)

• **HEAT-OFF-COOL switch**

• **Setpoint knob with range +10 to +30°C**

• **Power supply 220 Vac**

Type no.   **Description**

MRT 31A	Room Thermostat 3-speed High-Med-Low, Heat-Off-Cool

Zone Valves VZ-series

- 2-way, 3-way and 3-way 4-port valves

- Sizes DN15 and DN20 (1/2 inch and ¾ inch)

- Kvs values from 0.25 up to 6.0

- Brass valve body

- Operating pressure 16 Bar (PN16)

- Stainless steel stem

- Stroke length 2.5 mm

- Stem tight double OR ring in EPDM

- Seat in technopolymer

- Threaded male collar M30x1.5 for fitting of actuator

- All VZ-valves are Normally Closed (NC),
  i.e. the action of the valve spring makes the plug move to the upper seat, even with disassembled actuator.

Actuators AZ-series

- AZ-series actuators to be used with VZ-series DN15 and DN20 valves with kvs value from 0.25 up to to 6.0

- Actuating force 140 N

- Control Signals
  On/Off , PWM (Pulse With Modulation) or 0-10 Vdc

- Normally Closed (NC)

- Stroke length 2.5 mm

- Position indicator

- Fast and easy assembling of actuator on valve with a threaded ring nut

- The ring nut M30x1.50 suppiled with the actuator
  Threaded ring nut for other valve brands on request

- Supplied with 2 meter cable

- Applied in hot and chilled applications

Type no. zone valve	Body	Size	Kvs direct way	Kvs angle way
VZ2 100	2-way	1/2" (DN15)	1.0	
VZ2 160	2-way	1/2" (DN15)	1.6	
VZ2 250	2-way	3/4" (DN20)	2.5	
VZ2 400	2-way	3/4" (DN20)	4.0	
VZ2 600	2-way	3/4" (DN20)	6.0	
VZ3 100	3-way	1/2" (DN15)	1.0	0.6
VZ3 160	3-way	1/2" (DN15)	1.6	1.0
VZ3 250	3-way	3/4" (DN20)	2.5	1.6
VZ3 400	3-way	3/4" (DN20)	4.0	2.5
VZ3 600	3-way	3/4" (DN20)	6.0	4.0

Zone valves with kvs value 0.25, 0.40 and 0.60 on request
3-way 4-port valve on request.

Type no actuator	Control signal	Power supply
AZD 1404	on/off or PWM	24 Vac/dc
AZD 1403	on/off	230 Vac
AZP 1401	0-10 Vdc	24 Vac

Zone valves VZ-series assemblied with actuators AZ-series

VCP
Ventilation Control Products

**Thermoelectric Valve Actuators A-series
with Adaptors Suitable with
VZH Zone Valves and Other Valve Brands**

2018

Features

• **Control signals
   on/off or Pulse Width Modulation (PWM)
   or 0-10 Vdc**

• **Normally Closed**

• **Stroke lenght 4.0 mm**
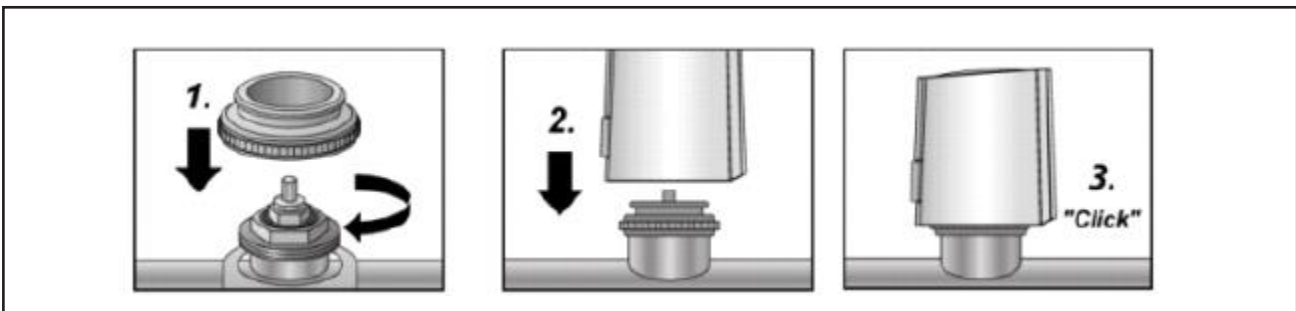
• **Force 100 N**

Adaptor to be used between actuator and valve.

**Adaptors availvable to more than 50
valve brands on the market.**

For examples:

**Honeywell, Siemens (Landis & Staefa), Danfoss,
Johnson Controls, Sauter, Tour & Anderson,
MMA (Markaryd), Cazzaniga, Herz, Oventrop,
Heimeier and many more.**

Valve adaptors can be used on new and existing valves

Type no.	Description	Power supply	Control signal
A 40405-10N00	Actuator without valve adaptor	24 Vac/dc	on/off or PWM
A 20405-10N00	Actuator without valve adaptor	230 Vac	on/off or PWM
APR 40405-00N00	Actuator without valve adaptor	24 Vac	0-10 Vdc
VA 80	Valve adaptor for VCP VZH valves, Heimeier, Tour & Andersson as of 1999, Honeywell V9050, Johnson Controls V5210KC, V5510KC, Sauter VXL F200 & 210, BXL F200 & 210, BUT 010 F410		
VA 50	Valve adaptor for Landis & Gyr, Siemens VDN 215, Watts/Cazzaniga, Sauter VXLF220, BUT015 F410, BUT010 F400, BUT015 F210, Herz		
VA 78	Valve adaptor for Danfoss RA (RA N, RA UN) high flange		

Adaptors for other valve brands available, see data sheet for more information.

Actuators with other features, see data sheet for more information.

RA2 24D

Features

- **Torque 2 Nm**
   to regulate dampers up to approx. 0.5 m²

- **Control signal**
   RA2 24 D = on/off
   RA2 220D = on/off
   RA2 24V = 2-10 Vdc

- **Feedback signal**
   2-10 Vdc for RA2 24V

- **Power supply**
   RA2 24 D = 24 Vac/dc
   RA2 220D = 220 Vac
   RA2 24V = 24 Vac/dc

- **Position indicator**

- **Manual override by push button**

- **Direction of rotation changeable**
   via L/R switch outside damper actuator

- **Supplied with 0.9 m cable**

- **Rotation angle max 95°**

- **Auxiliary switch on request**

Type no.	Torque	For dampers up to approx.	Control signal(s)	Power supply	Running time
RA2 24D	2 Nm	0.5 m²	On/off	24 Vac/dc	30-35 sec
RA2 220D	2 Nm	0.5 m²	On/off	220 Vac	30-35 sec
RA2 24V	2 Nm	0.5 m²	2-10 Vdc	24 Vac/dc	80-110 sec

VCD
Ventilation Control Products

Non-Spring Return Damper Actuators
Torque 4, 8, 16, 24 and 32 Nm

RA4 24V

RA16 24VC

Features

• Torques 4 Nm, 8 Nm, 16 Nm, 24 Nm and 32 Nm

• Max size of damper shaft for
  4 Nm damper actuators
   - Round shaft 16 mm in diameter
   - Square shaft 12x12 mm

• Max size of damper shaft for
  8, 16, 24 and 32 Nm damper actuators
   - Round shaft 20 mm in diameter
   - Square shaft 16x16 mm

• Feedback signal 2-10 Vdc
  on analogue damper actuators 8, 16, 24 and 32 Nm

• Rotation angle 0-90°

• Position indicator

• Manual override by push button

• Direction of rotation changable

• Anti-rotation bracket provided for stability

On request
- Auxiliary switches
- Spring return actuators
- Fast running time actuators

Type no.	Torque	For dampers up to approx.	Control signal(s)	Power supply	Running time
RA4 24D	4 Nm	1.0 m²	On/off or 3-point	24 Vac/dc	35 secs
RA4 220D	4 Nm	1.0 m²	On/off or 3-point	220 Vac	35 secs
RA4 24V	4 Nm	1.0 m²	0-10 Vdc	24 Vac/dc	35 secs
RA4 24C	4 Nm	1.0 m²	4-20 mA	24 Vac/dc	35 secs
RA8 24D	8 Nm	2.0 m²	On/off or 3-point	24 Vac/dc	30 secs
RA8 220D	8 Nm	2.0 m²	On/off or 3-point	220 Vac	30 secs
RA8 24VC	8 Nm	2.0 m²	2-10 Vdc or 4-20 mA	24 Vac/dc	30 secs
RA16 24D	16 Nm	4.0 m²	On/off or 3-point	24 Vac/dc	80 secs
RA16 220D	16 Nm	4.0 m²	On/off or 3-point	220 Vac	80 secs
RA16 24VC	16 Nm	4.0 m²	2-10 Vdc or 4-20 mA	24 Vac/dc	80 secs
RA24 24D	24 Nm	6.0 m²	On/off or 3-point	24 Vac/dc	125 secs
RA24 220D	24 Nm	6.0 m²	On/off or 3-point	220 Vac	125 secs
RA24 24VC	24 Nm	6.0 m²	2-10 Vdc or 4-20 mA	24 Vac/dc	125 secs
RA32 24D	32 Nm	8.0 m²	On/off or 3-point	24 Vac/dc	140 secs
RA32 220D	32 Nm	8.0 m²	On/off or 3-point	220 Vac	140 secs
RA32 24VC	32 Nm	8.0 m²	2-10 Vdc or 4-20 mA	24 Vac/dc	220 secs

RAR5 220D

RAR15 220D S2

Features

- **Torques**
  - **5 Nm for RAR5-series**
  - **10 Nm for RAR10-series**
  - **15 Nm for RAR15-series**

- **Suitable damper shaft dimensions**

  - **RAR5:**
  - **Round shaft 10-16 mm in diameter**
  - **Square shaft 7-11 mm**

  - **RAR10 and RAR15:**
  - **Round shaft 10-19 mm in diameter**
  - **Square shaft 10-16 mm**

- **Power supply 24 Vac/dc or 220 Vac**

- **Control signal on/off**

- **Auxiliary switches available**

- **Position indicator**

- **Anti-rotation bracket provided for stability**

Type no.	Torque	For dampers up to approx.	Control signal(s)	Power supply	Running time	Auxiliary switch(es)
RAR5 24D	5 Nm	1.0 m²	On/off	24 Vac/dc	actuator < 50-70 s spring < 20 s	No
RAR5 220D	5 Nm	1.0 m²	On/off	220 Vac	actuator < 50-70 s spring < 20 s	No
RAR5 24D S2	5 Nm	1.0 m²	On/off	24 Vac/dc	actuator < 50-70 s spring < 20 s	Yes (2)
RAR5 220D S2	5 Nm	1.0 m²	On/off	220 Vac	actuator < 50-70 s spring < 20 s	Yes (2)
RAR10 24D	10 Nm	2.0 m²	On/off	24 Vac/dc	actuator 100 s spring < 25 s	No
RAR10 220D	10 Nm	2.0 m²	On/off	220 Vac	actuator 100 s spring < 25 s	No
RAR10 24D S2	10 Nm	2.0 m²	On/off	24 Vac/dc	actuator 100 s spring < 25 s	Yes (2)
RAR10 220D S2	10 Nm	2.0 m²	On/off	220 Vac	actuator 100 s spring < 25 s	Yes (2)
RAR15 24D	15 Nm	3.0 m²	On/off	24 Vac/dc	actuator 180 s spring < 30 s	No
RAR15 220D	15 Nm	3.0 m²	On/off	220 Vac	actuator 180 s spring < 30 s	No
RAR15 24D S2	15 Nm	3.0 m²	On/off	24 Vac/dc	actuator 180 s spring < 30 s	Yes (2)
RAR15 220D S2	15 Nm	3.0 m²	On/off	220 Vac	actuator 180 s spring < 30 s	Yes (2)

V-C-P

Ventilation Control Products

Ventilation Control Products Sweden AB

Phone: +46-31-811666
E-mail: info@vcp.se
Web: www.vcp.se