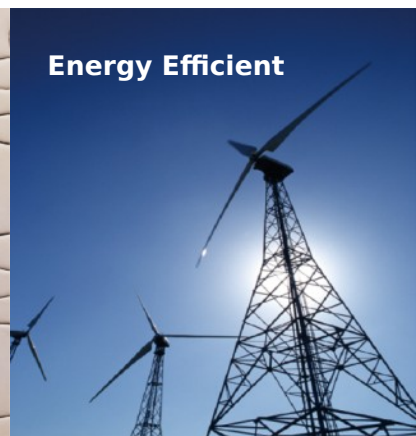


Proven Quality**Reliable And Accurate
Measurement And
Control****Application Flexibility****Energy Efficient**

Reliable measurement and control technology for versatile HVAC applications from Vector Controls since 2001



An optimal climate, controlled by reliable and intelligent control elements, not only reduces energy consumption and maintenance costs but also increases the quality of life at home and at work.

Products and solutions

- ▲ **Controllers and sensors with streamlined commissioning and communication options**
- ▲ **Configurable input and output processing**
- ▲ **Solutions for fan coil systems, pumps, comfort ventilation, air convectors and many more**
- ▲ **Tailor made solutions for OEM with pre-programmed applications**
- ▲ **Wide range of sensors for temperature, humidity, CO2, VOC and differential pressure**
- ▲ **Indoor, outdoor, duct and tube connected sensors and transmitters**



Company introduction

Vector Controls - optimal HVAC sensors and controls for everyone

What started in 2001 with the founding of Vector Controls by four experienced industry professionals, quickly developed into a success story: The initial focus in ventilation controllers and thermostats led to further controller and measurement applications. The modular design of sensors, controllers and operating terminals laid the foundation for the universal, communicating controller solutions from Vector Controls as they are known today. Efficient, simple and inexpensive HVAC control solutions optimize your indoor climate and conserve resources.

We provide solutions for projects ranging from standalone ventilation controllers to HVAC system solutions for entire buildings. The universal programmable controllers are the heart of all Vector applications. They are complemented by a wide range of sensors and application specific controls. The fieldbus connection of the controllers and the graphical representation of the data with the GSM series (gateway server modules) make it possible that every HVAC project can be optimally controlled and monitored using Vector Controls components.

Our headquarters, where the global R&D is located, are in Switzerland; production facilities are located in Switzerland and in China; sales and distribution for each major continent is located in Switzerland, China and the USA. Our products are sold worldwide.

Index

X2 Devices Overview.....	3
X2 Controller TCI2/TRI2.....	4
X2 Controller TCX2.....	5
X2 Sensor SDC2/SOC2/SCC2.....	6
X2 External Operation Terminal.....	7
Ventilation Controller MZ.....	8
Condensation Monitor AER.....	9
Thermostat/ Humidistat TCY/TDC/TEM/TEF.....	9
Standalone Universal Controller TCI.....	10
Fan Coil Controller (Wall Mount) TLC3.....	11
Fan Coil Controller (Cabinet Mount) TLR.....	12
Passive Temperature Sensor S-/SC-/SD-/SDB-/SRA-/SOD-.....	13
Temperature, Humidity and CO2 Transmitter SRC/SDC/SOC/SCC-T1-Tp2.....	14
Pressure Sensor Transmitter SDE-P/SDA-P.....	15

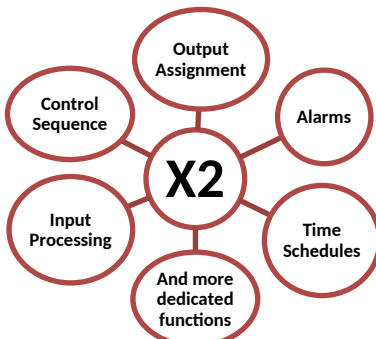
Gateway Server/Router/HMI.....16

Accessories..... 17

Vector Controls, your reliable partner for measurement and control.....18

X2 Devices Overview

X2 is the operating system from Vector Controls for its latest generation of controllers and sensors. This operating system offers one common platform and thus harmonizing functionality, configuration procedures, communication options and the optional use of external operation terminals.

Functionality	Configuration	Communication
	Configurable with the EasySet software from Vector Controls via RS485/USB interface 	Communication options: - Modbus RTU/ASCII - BACnet® MS/TP - Standalone (none) 

X2 Controllers

TRI2	TCI2	TCX2
- Wall mount 72x113 mm size - Temperature and humidity sensor 	- Universal inputs with PT1000 option 24V and 110V to 230V power supply option 	- Universal inputs (NTC, VDC, mA) 24V and 110V power supply option - Optional integrated operation terminal 

X2 Sensors

SDC2	SOC2	SCC2
- Duct sensor - Temperature, humidity, VOC or CO2 	- Outdoor sensor - Temperature or humidity 	6 mm diameter tube connectors - VOC or CO2 sensor 

X2 Operation Terminals

OPT1-FU	OPT1-FU	OPU2
- Wall mount 72x113 frame size - Touch display 	- Wall mount 72x113 frame size - Touch display 	Optional sensors and passive inputs (NTC, open contact) 

X2 Controller TCI2/TRI2



TCI2



TRI2-FU

The TCI2 and TRI2 devices are X2 controllers with two control loops.

- Universal controller with two PI control loops
- 12-time programs with real time clock. Outputs and setpoints can be time-controlled
- TCI2 with PT1000 on universal inputs
- TCI2 option: Integrated operation terminal
- Alarms on all inputs with configurable response on each output
- Energy saving through setpoint limiting and set-back operation and "Economizer" function (free heating or cooling)
- Heating/cooling operation, switching between lowering/normal operation with or without door contact monitoring
- Special functions such as cascade control, setpoint shift and more

Model	Description	Details
TCI2-204.202UC-MOD TCI2-204.202UC-OP-MOD TCI2-204.202UC-BAC TCI2-204.202UC-OP-BAC TCI2-204.202UC-OP	Cabinet mounted X2 Controller Power supply 24 V AC/DC	2 digital outputs (relay 2A) 2 analog outputs (VDC, mA) configurable via jumper 4 universal inputs (PT1000, NTC, VDC, mA) configurable via jumper
TCI2-204.202UC-OP-L TCI2-204.202UC-OP-MOD-L	Power supply: 110 to 230 V AC	
TRI2-FU-TH-221.202C TRI2-FU-TH-221.202C-MOD TRI2-FU-TH-221.202C-BAC	Wall mounted X2 Controller Square display (72x113 mm frame size) Power supply 24V AC/DC Temperature and humidity sensor	2 digital outputs (relay 2A) 2 analog outputs (VDC) 2 passive inputs (NTC, open contact) 1 analog input (VDC)
-MOD -BAC -OP	with Modbus-communication with BACnet®-communication with integrated operation terminal	Model explanation
AEC-PM2	Backup-Parameter memory for TCI2 and TRI2	Accessories for copying parameters
AEX2-BAC AEX2-MOD	BACnet® Plug-In for TCI2 Modbus Plug-In for TCI2	Communications-Plug-In for BACnet®, MS/TP Communications-Plug-In for MODBUS-Slave
AMM-2	Kit for front panel mounting for TCI2-series	

Accessories on page 17

X2 Controller TCX2



TCX2-OP



TCX2

The TCX2 devices are X2 controllers with up to four control loops.

- ▢ X2 controller with up to four PI control loops
- ▢ 12-time programs. Outputs and setpoints can be time-controlled
- ▢ Optional integrated operation terminal
- ▢ Alarms on all inputs with configurable response on each output
- ▢ Energy saving through setpoint limiting and set-back operation and "Economizer" function (free heating or cooling)
- ▢ Heating/cooling operation, switching between lowering/normal operation with or without door contact monitoring
- ▢ Special functions such as cascade control, setpoint shift and more

Model	Description	Details
TCX2-40863(-OP) TCX2-40863(-OP)-BAC TCX2-40863(-OP)-MOD	X2 universal controller 4 PI control loops Real time clock Power supply: 24V AC/DC	6 digital outputs (relay 3A) 3 analog outputs (VDC, mA) configurable via jumper 8 universal inputs (NTC, VDC, mA) configurable via jumper
TCX2-14050-MOD	Optimized for fan coil controls 1 PI control loop Power supply: 24V AC/DC	5 digital outputs (relay 3A) 4 passive inputs (NTC, open contact)
TCX2-14050-120-BAC	Optimized for fan coil controls 1 PI control loop Power supply: 110 V AC	5 digital outputs (relay 3A) 4 passive inputs (NTC, open contact)
TCX2-23343-MOD TCX2-23343-BAC	Optimized for VAV / Fan coil controls 2 PI control loops Power supply: 24V AC/DC	4 digital outputs (relay 3A) 3 analog outputs (VDC) 3 passive inputs (NTC, open contact) 3 analog inputs (VDC)
TCX2-24273 TCX2-24273-MOD TCX2-24273-BAC	Optimized for zone controls 2 PI control loops Power supply: 24V AC/DC	1 digital output (relay 10A) 4 digital outputs (relay 2A) 2 digital outputs (TRIAC 24 VAC) 3 analog outputs (VDC) 4 passive inputs (NTC, open contact) 2 analog inputs (VDC)
-MOD -BAC -OP	With Modbus-communication With BACnet®-communication With integrated operation terminal	Model explanation
AEC-PM1	Backup-Parameter memory for TCX2	Accessory for copying parameters
AEX-BAC AEX-MOD	BACnet® Plug-In for TCX2 Modbus Plug-In for TCX2	Communication-Plug-In for BACnet®, MS/TP Communication-Plug-In for Modbus-Slave
AMM-1	Kit for front panel mounting for TCX2-series	

Accessories on page 17

X2 Sensor SDC2/SOC2/SCC2



SDC2



SOC2



2

SCC



PC2-S

0

X2 sensors and controller with two control loops for duct, outdoor and tube connection.

- X2 sensor and controller with two PI control loops
- Sensor range: Temperature, humidity, VOC and CO2
- Sensing: Duct (SDC2), outdoor (SOC2) and with 6 mm diameter tube connectors (SCC2)
- Optional integrated operation terminal
- Alarms on all inputs with configurable response on each output
- Energy saving through setpoint limiting and set-back operation and "Economizer" function (free heating or cooling)
- Heating/cooling operation, switching between lowering/normal operation with or without door contact monitoring
- Special functions such as cascade control, setpoint shift and more

Model	Description	Details
SDC2-16-T-200.101U-1 SDC2-16-T-200.101U-MOD-1 SDC2-16-T-200.101U-BAC-1	X2 duct sensor and controller Temperature sensor	1 digital output SPDT (relay 2A) 1 analog output (VDC, mA) configurable via jumper
SDC2-16-C-200.101U-1 SDC2-16-THQ-200.101U-1	CO2 sensor Temperature, humidity and VOC sensor	
SDC2-16-TH-210.102U-1 SDC2-16-TH-210.102U-MOD-1 SDC2-16-TH-210.102U-BAC-1 SDC2-16-TH-210.102U-OP-MOD-1	Temperature and humidity sensor	1 digital output SPDT (relay 2A) 2 analog outputs (VDC, mA) configurable via jumper 1 passive input (NTC, open contact)
SDC2-16-THC-210.102U-MOD-1 SDC2-16-THC-210.102U-BAC-1	Temperature, humidity and CO2 sensor	
SDC2-16-THQ-210.102U-MOD-1 SDC2-16-THQ-210.102U-BAC-1	Temperature, humidity and VOC sensor	
SDC2-16-THCQ-210.102U-1 SDC2-16-THCQ-210.102U-MOD-1 SDC2-16-THCQ-210.102U-BAC-1	Temperature, humidity, CO2 and VOC sensor	
SOC2-TH-210.102U-1 SOC2-TH-210.102U-BAC-1 SOC2-TH-210.102U-MOD-1 SOC2-TH-210.102U-OP-1 SOC2-TH-210.102U-OP-BAC-1 SOC2-TH-210.102U-OP-MOD-1	X2 outdoor sensor and controller Temperature and humidity sensor Integrated operating terminal	1 digital output SPDT (relay 2A) 2 analog outputs (VDC, mA) configurable via jumper 1 passive input (NTC, open contact)
SCC2-CQ-210.102U-MOD-1 SCC2-CQ-210.102U-BAC-1	X2 tube connection sensor and controller CO2 and VOC sensor	1 digital output SPDT (relay 2A) 2 analog outputs (VDC, mA) configurable via jumper 1 passive input (NTC, open contact)
SCC2-C-200.101U-1 SCC2-Q-200.101U-1	CO2 sensor VOC sensor	1 digital output SPDT (relay 2A) 1 analog output (VDC, mA) configurable via jumper
-MOD -BAC -OP	With Modbus-communication With BACnet®-communication With integrated operation terminal	Model explanation
OPC2-S	Optional integrated operation terminal for SDC2 / SOC2	
AEC-PM2	Backup parameter memory for SDC2, SOC2 and SCC2	Accessories for copying parameters

Accessories on page 17

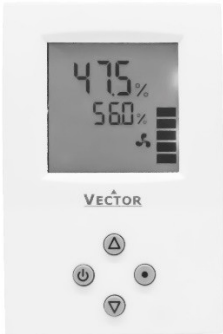
X2 External Operation Terminal



OPT1-FU



OPT1-FU



OPU2

External operation terminals for X2 controllers and sensors (not suitable for the TRI2).

Optional sensors or inputs

OPT1 with touch display and with variable mounting frames

Model	Description	Details
OPT1-FU-TNV-VC OPT1-FU-HTNV-VC	X2 operation terminal with touch display 72x113 mm frame size Temperature sensor Temperature and humidity sensor	Peer to peer RS485 communication with X2 controller 1 passive input (NTC, open contact) 1 analog input (VDC)
OPU2-T-VC OPU2-TH-VC OPU2-2T-VC OPU2-2TH-VC	X2 operation terminal Temperature sensor Temperature and humidity sensor Temperature sensor Temperature and humidity sensor	Peer to peer RS485 communication with X2 controller 2 passive inputs (NTC, open contact) 2 passive inputs (NTC, open contact)

Accessories on page 17



Premier Energy USA

Ventilation Controller MZ



TCY-MZ2

Control of comfort ventilation systems (for example for very well insulated residential buildings)

- ▢ Password protected controls settings
 - ▢ Deluxe version with real time clock (RTC)
- ▢ One 0...10 V DC output to control the ventilation system
 - ▢ One 0...10 V DC input to measure CO2 or other sensors

Model	Description	Details
TCY-MZ2	LCD positioner for comfort ventilation Without real time clock	Conventional flush mounted positioner 2 analog outputs (VDC) for supply and return air channels
TCY-MZ2-D	With real time clock	1 passive input (NTC, open contact)

Accessories on page 17

Condensation Monitor AER

Thermostat/ Humidistat TCY/TDC/TEM/TEF


AER-HL1

TCY

TDC

TEM / TEF

AER-HL1 is a condensation monitor that prevents condensation before it happens!

TCY devices measure and control temperature, humidity or living comfort and are flush-mounted.

TDC-BH devices are humidity controllers for air duct mounting.

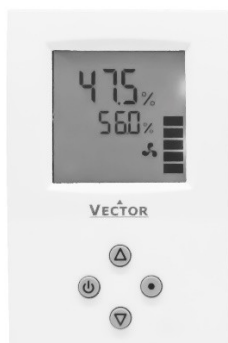
TEM and TEF devices are PI temperature controllers for surface mounting.

- ▢ LCD display for TCY, TDC; LED display for TEM, TEF
- ▢ Programmable settings
- ▢ Power supply: 24 V AC/DC (TCY-FT only 24 VAC)
- ▢ Deluxe version with backlight and timer (TCY, TDC)
- ▢ Energy saving with programmable hysteresis, set-back operation and setpoint limits

Model	Description	Details
AER-HL1 AER-HL1-2	Condensation monitor for chilled beams, chilled ceilings to prevent condensation. Standard variant (no cable) With 2m cable pre-assembled	1 digital output SPDT (relay 5A) Switching relay, if dew point gets within 3 °C to room temperature (default) Programmable switch on/off level Optional operation terminal: OPU-S
TCY-MT2-U	PI-temperature controller 2-pipe system and modulating actuators	1 analog output 0 - 10 V DC 1 internal temperature sensor 2 passive inputs (NTC, open contact)
TCY-MT4-U	PI-temperature controller 4-pipe system and modulating actuators	2 analog outputs 0 - 10 V DC 1 internal temperature sensor 1 passive input (NTC, open contact)
TCY-FT2-U	PI-temperature controller 2-pipe system and 3-point actuators	2 TRIAC outputs for one 3-point actuator 1 internal temperature sensor 2 passive inputs (NTC, open contact)
TCY-FT4-U	PI-temperature controller 4-pipe system and 3-point actuators	4 TRIAC outputs for two 3-point actuators 1 internal temperature sensor 1 passive input (NTC, open contact)
TCY-BH-U	Humidistat wall mounted 2-point humidifying or dehumidifying with optional fan support	2 digital outputs (relay 2A) 1 internal humidity sensor, accuracy 5 % 1 external temperature sensor input for setpoint reset
TDC-BH-U	Humidistat duct mounted 2-point humidifying or dehumidifying with optional fan support	2 digital outputs (relay 2A) 1 internal humidity sensor, accuracy 5 % 1 external temperature sensor input for setpoint reset
TEM	PI controller surface mounting, modulating PI-controller or positioner for modulating actuators	1 analog output 0 - 10 V DC 1 internal temperature sensor 1 passive input (NTC, open contact) 1 voltage input 0 - 10 V DC
TEF	PI controller surface mounting for 2- or 3- point actuators PI-controller or positioner for 2- or 4-pipe system for two on/off actuators or one 3-point actuator	2 digital outputs (relay 1A) 1 internal temperature sensor 1 passive input (NTC, open contact)

Accessories on page 17

Standalone Universal Controller TCI



Change picture to °F???
TCI-W



Change picture to °F???
TCI-C

TCI devices are programmable PI or on-off compact controllers.

TCI-W is wall mounted with integrated temperature and optional humidity sensor.

TCI-C is control cabinet mounted.

- Universal controllers with up to two control loops
- 2 PI parameter sets (heat/cool) per loop
- Universal input and analog output configurable via jumpers
- TCI-C option: PT1000/Ni1000 input
- Alarm limits on all inputs with configurable output behaviour
- Special functions such as setpoint shift, heat-cool changeover, cascade control (for two loops) and more
- Manual Control of the outputs by timer (real time clock needed)
- Power supply: 24V AC/DC

Model	Description	Details
TCI-W11-U TCI-W11-U-H	Wall mounted controller (1 loop) Temperature sensor Temperature and humidity sensor	2 digital outputs (relay 2A) 1 analog output (VDC, mA) 1 universal input (NTC, VDC, mA)
TCI-W13-U TCI-W13-U-H	Temperature sensor Temperature and humidity sensor	1 digital output (relay 2A) 2 analog outputs (VDC, mA) 1 universal input (NTC, VDC, mA)
TCI-W22-U TCI-W22-U-H	Wall mounted controller (2 loops and real time clock) Temperature sensor Temperature and humidity sensor	2 digital outputs (relay 2A) 1 analog output (VDC, mA) 2 universal inputs (NTC, VDC, mA)
TCI-W23-U TCI-W23-U-H	Temperature sensor Temperature and humidity sensor	1 digital output (relay 2A) 2 analog outputs (VDC, mA) 1 universal input (NTC, VDC, mA) 1 passive input (NTC, open contact)
TCI-C11 TCI-C14	Cabinet mounted controller (1 loop) NTC temperature inputs PT1000/Ni1000 temperature inputs	2 digital outputs (relay 5A) 1 analog output (VDC, mA) 2 universal inputs (Temperature input, VDC, mA)
TCI-C13 TCI-C15	NTC temperature inputs PT1000/Ni1000 temperature inputs	2 digital outputs (TRIAC) 1 analog output (VDC, mA) 2 universal inputs (Temperature input, VDC, mA)
TCI-C22 TCI-C24	Cabinet mounted controller (2 loops and real time clock) NTC temperature inputs PT1000/Ni1000 temperature inputs	2 digital outputs (relay 5A) 2 analog outputs (VDC, mA) 4 universal inputs (Temperature input, VDC, mA)
TCI-C25	TRIAC outputs, PT1000/Ni1000 temperature inputs	2 digital outputs (TRIAC) 2 analog outputs (VDC, mA) 4 universal inputs (PT1000/Ni1000, VDC/mA)
AMM-2	Kit for front panel mounting for TCI-C	

Accessories on page 17

Fan Coil Controller (Wall Mount) TLC3



TLC3

Wall mount standalone thermostat or fan coil controller with temperature sensor.

- Wall mount (flush mount on installation box)
- Power supply options: 110V AC or 24V AC/DC
- Relay, TRIAC or analog output options
- Programmable user and expert parameters
- Energy saving with comfort and economy modes and automatics fan speeds switching for FCR models
- Special functions including frost protection, comfort/ economy mode change based on temperature input, for key cards or motion detectors, etc.
- Deluxe version with backlight, clock and infrared remote-control possibilities

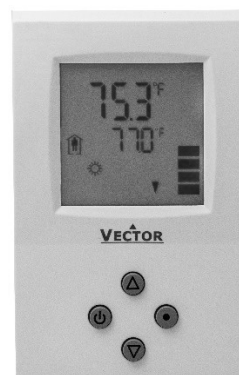
Model	Description	Details
TLC3-FCR-T-U...	Fan coil controller for 2-pipe system	3 digital outputs (relay 1.25A) for fan 1 digital output (relay 1.25A) for valve with spring return 1 passive input (NTC, open contact)
TLC3-FCR-2R-U-24	Fan coil controller for 4-pipe system	3 digital outputs (relay 2A) for fan 2 digital outputs (relay for -24) for valve
TLC3-FCR-2T-U-110	Fan coil controller for 4-pipe system	3 digital outputs (relay 2A) for fan 2 digital outputs (relay for -24) for valve
TLC3-FCR-M2-U...	Fan coil controller for 2-pipe system	3 digital outputs (relay 2A) for fan 1 analog output (VDC) for valve 2 passive inputs (NTC, open contact)
TLC3-FCR-M4-U...	Fan coil controller for 4-pipe system	3 digital outputs (relay 2A) for fan 2 analog outputs (VDC) for valve 1 passive input (NTC, open contact)
Explanation	-D = deluxe version -24 = 24 V AC/DC -110 = 230 V AC -W01 = cooling only	With backlight, real time clock, support for OPR-1 Power supply 24 V AC/DC Power supply 110 V AC Fixed to cooling only mode
OPR-1	Infrared remote controller for deluxe version	

Accessories on page 17

Fan Coil Controller (Cabinet Mount) TLR



TLR



OPU-D

Cabinet mount standalone fan coil controller and wall mounted operation terminal with temperature sensor.

- High switching power for each output up to 10 A
- Power supply: 24V AC/DC
- Master/slave options: One operation terminal may drive up to eight base units
- Cost saving option with economy functionality and setpoint limitation, automatic fan control
- Deluxe version with backlight and clock

Model	Description	Details
TLR-D5-...	Base unit fan coil controller for 2- and 4-pipe system and ON/OFF valve	3 digital outputs (relay 10A) for fan 2 digital outputs (relay 10A) for valve 1 passive input (NTC, open contact)
TLR-D5F-...	Base unit fan coil controller for 2-pipe system and 3-position valve	3 digital outputs (relay 10A) for fan 2 digital outputs (TRIAC) for 3-position valve 1 passive input (NTC, open contact)
TLR-D42-...	Base unit fan coil controller for 2- and 4-pipe system and modulating actuators	3 digital outputs (relay 10A) for fan 1 digital output (relay 10A) for ON/OFF valve 2 analog outputs (VDC) for modulating actuators 1 passive input (NTC, open contact)
TLR-D5P-...	Package unit controller for air conditioner controller for 4-pipe system	1 digital output (relay 10A) for fan 4 digital outputs (relay 10A) for heating / cooling stages and reversing valves 1 passive input (NTC, open contact)
TLR Variations	-24 = 24V AC/DC	Power supply 24V AC/DC
OPU-Dx* OPU-Dx-D	Operation terminal for TLR Dx* = D5, D5F, D41, D5P Temperature sensor	Surface or flush mounting -D: With backlight, real time clock and time schedules

Accessories on page 17

Passive Temperature Sensor S-/SC-/SD-/SDB-/SRA-/SOD-



S-T



SC-T



SD-T



SDB-T



SRA-T



SOD-T

Passive temperature sensors for a large variety of installation options and applications.

- Temperature sensing elements NTC, PT1000 and NI1000
- Robust housing
- Large selection of sensing element types and curves
- IP 65 for SOD-T, SDB-T, S-T and IP 30 for SRA-T
- Special sensing elements or probe design available upon request

Model	Description	Details
S-Txx*-2	Cable temperature sensor -2 = 2 m cable -Txx* = see below 'Probe selection'	Passive temperature sensor
SC-Txx*-2 SC-Tpx*	Contact temperature sensor -2 = 2 m cable -Txx* = see below 'Probe selection'	Passive temperature sensor for temperature detection on pipes and vaulted surfaces.
SD-Txx*-12-2 SD-Txx*-20-2	Duct temperature sensor with cable Probe length = 12 cm Probe length = 20 cm -2 = 2 m cable -Txx* = see below 'Probe selection'	Passive duct temperature sensor with cable
SDB-Txx*-12 SDB-Txx*-20	Duct temperature sensor Probe length = 12 cm Probe length = 20 cm -Txx* = see below 'Probe selection'	Passive duct temperature sensor with housing
SRA-Txx*	Room temperature sensor -Txx* = see below 'Probe selection'	Passive room sensor
SOD-Txx*	Outdoor temperature sensor -Txx* = see below 'Probe selection'	Passive outdoor temperature sensor

*Probe selection (-Txx)

-Txx	Sensing element	Details
-Tn3	NTC 3 kΩ at 25 °C	B35/50: 3935
-Tn10	NTC 10 kΩ at 25 °C	B35/50: 3935
-Tn11	NTC 10 kΩ at 25 °C	B35/50: 3630
-Tn20	NTC 20 kΩ at 25 °C	B35/50: 4200
-Tn100	NTC 100 kΩ at 25 °C	B35/50: 4200
-Tp1	PT100	EN 60751
-Tp2	PT1000	EN 60751
-Tk5	NI1000	5000 ppm/K

Accessories on page 17

Temperature, Humidity and CO2 Transmitter SRC/SDC/SOC/SCC-T1-Tp2


SRC

SDC

SOC

SCC-T1-Tp2

Temperature and humidity transmitter for a wide range of installation options and applications.

A programmable and precise transmitter for PT1000 measuring elements is the SCC-T1-Tp2.

- ▢ 3-wire transmitters with selectable 0/2 - 10 V or 0/4 - 20 mA
- ▢ Programmable with OPA-S and OPC-S
- ▢ OPC-S: Optional internal display for SDC, SOC and SCC
- ▢ Duct (SDC) and outdoor transmitters (SOC) have IP 54 housings. IP 63 with weather protection AMS-1. IP 30 for room sensor (SRC)
- ▢ 5 %, 3 % or 2 % humidity accuracy
- ▢ Output signal and temperature measuring range selectable, storage of minimum and maximum values
- ▢ Cable gland for SDC and SOC
- ▢ Immersion sleeves AMI (for duct transmitters)

Model	Description	Details
SRC-T1 SRC-H1 SRC-H1T SRC-H1T1 SRC-C1 SRC-C1T1	Room sensor Temperature transmitter Humidity transmitter Humidity transmitter with passive temperature sensor Temperature and humidity transmitter CO2 transmitter: 0 - 2000 ppm CO2 and temperature transmitter	Active transmitter with 3-wire connection Output signal selectable 0/2-10 V, 0/4-20mA Standard humidity accuracy: 3% Accessory: AES3-HT
SDC-T1-x SDC-H1-x SDC-H1T-x SDC-H1T1-x SDC-C1	Duct sensor Temperature transmitter Humidity transmitter Humidity transmitter with passive temperature sensor Temperature and humidity transmitter CO2 transmitter -x = probe length: -8, -16, -24 (cm)	Active transmitter with 3-wire connection Output signal selectable 0/2-10 V, 0/4-20mA Standard humidity accuracy: 3% Cable gland Accessory: AES3-HT
SOC-T1 SOC-H1 SOC-H1T SOC-H1T1	Outdoor sensor Temperature transmitter Humidity transmitter Humidity transmitter with passive temperature sensor Temperature and humidity transmitter	Active transmitter with 3-wire connection Output signal selectable 0/2-10 V, 0/4-20mA Standard humidity accuracy: 3% Cable gland Weather shield AMS-1 Accessory: AES3-HT
SCC-T1-Tp2	Large range temperature transmitter (PT1000) Measuring range -40...+ 400 ° C	External PT1000 sensor element needed (page 13) Output signal selectable 0/2-10 V, 0/4-20 mA
OPU-S	Operation terminal SxA/SxC-Series	For programming of the transmitters and as a display unit
OPC-S	Integrated operation terminal for SDC/SCC/SOC	For duct- and outdoor sensor series SDC/SCC/SOC

Accessories on page 17

Pressure Sensor Transmitter SDE-P/SDA-P



SDE-P



SDA-P

The SDE-P is a dynamic differential pressure sensor with minimal size and high sensitivity.
SDA-P is a static differential pressure sensor.

- Transmitter with 3-wire connection
- Jumper selectable output signal (VDC, mA)
- Power supply: 24V AC/DC
- OPA-S: Optional external operation terminal
- Output range programmable
- Min. / max. memory for monitoring

Model	Description	Details
SDE-P1 SDE-P2 SDE-P3 SDE-P4	Dynamic differential pressure transmitter Pressure range: 0...25 Pa 0...100 Pa 0...500 Pa 0...2.5 kPa	Transmitter with 3-wire connection Output signal selectable 0/2 - 10 V, 0/4 - 20 mA
SDA-P1 SDA-P2 SDA-P3 SDA-P4 SDA-P5	Static differential pressure transmitter Pressure range: 0...300 Pa 0...500 Pa 0...1 kPa 0...3 kPa 0...5 kPa	Transmitter with 3-wire connection Output signal selectable 0/2 - 10 V, 0/4 - 20 mA

Accessories on page 17

Gateway Server/Router/HMI



GSM-DSA



GSM-1000-BMX



GSM-2000-SMP V2.0

Visualize, operate and supervise your equipment with our latest series of servers, routers or gateways. The products of the GSM range offer the right solution for every type of project: From residential, small, medium to large office buildings to hotels and hospitals.

- Fully programmable
- Smooth integration into a BACnet® or Modbus system
- Wide-ranging applications
- Gateway and server for small and medium-sized systems
- Embedded webserver for visualization
- Reliable network integration
- GSM-DSA for IOT-application
- GSM-1000-BMX for complex BACnet® systems
- GSM-2000-SMP is easy to program. Ideal for reliable small and medium-sized systems

Model	Description	Details
GSM-1000-BMX	Gateway server medium free programmable, no license required.	Up to 35 BACnet® devices to a BACnet®/IP or BACnet® Ethernet backbone. With 2 Ethernet and 1 RS485 interface.
GSM-2000-SMP V2.0	Cabinet mounted gateway server HMI („Human Machine Interface “), easy to configure webserver, predefined structure, free programmable graphics, easy integration of the controller.	Supports LON works, Modbus 485/TCP, BACnet®/IP and BACnet® MS/TP RS485 integration of MODBUS and BACnet® only with accessory
GSM-100-DSA GSM-500-DSA GSM-1000-DSA GSM-1500-DSA	Cabinet mounted gateway DSA server with DGLUX5 licensed for 100 topics with DGLUX5 licensed for 500 topics with DGLUX5 licensed for 1000 topics with DGLUX5 licensed for 1500 topics	Supports Modbus TCP, BACnet®/IP and many more for Linux operating system with 4 USB-ports and 1 Ethernet port Browser based programming RS485 support for MS/TP or Modbus possible with USB-RS485 interface.
AEC-USB-01	RS485 - USB interface	Use with EasySet or for GSM-DSA RS485 communication
AEX-SMP-MOD AEX-SMP-BAC	Modbus RS485 interface for GSM-2000-SMP BACnet® MS/TP RS485 interface for GSM-2000-SMP	

Accessories on page 17

Accessories



AMC-1 / AMC-2



AMI



AES3

AM... Mechanical accessories, AE... Electrical accessories

- Immersion sleeves AMI (for duct temperature sensors and probes)
- Surface-mounted junction boxes TCI-W, TCY, TLC3
- Flush-mounting junction boxes for TCY, TLC3

Model	Description	Details
AER-D13	Signal converter from analog output to digital outputs	Compact unit that switches at over 90% RH and below 85% to prevent condensation. Device can be configured via operation terminal: OPU-S
AMC-1 AMC-2	Cable protection gland Cable protection connector	Cable protection gland and - connector for SDC and SOC, SCC
AMI-S5(-1) (-2) AMI-S10(-1) (-2) AMI-S20(-1) (-2) AMI-S40(-1) (-2)	Stainless Steel immersion sleeves Length 5 cm Length 10 cm Length 20 cm Length 40 cm	Stainless steel immersion sleeves with fixing screw for SD-T or SDB-T -1 with ½" NPT thread -2 with ½" BSP thread,
AES3-HT-A5 AES3-HT-A3 AES3-HT-A2	Humidity sensors element for - H1, H1T1 sensor	5 % accuracy 3 % accuracy 2 % accuracy
AES3-HTn3-A3 AES3-HTn10-A3 AES3-HTn11-A3 AES3-HTn20-A3 AES3-HTn100-A3	Humidity sensors element for -H1T sensor NTC 3 kΩ at 25 °C NTC 10 kΩ at 25 °C NTC 10 kΩ at 25 °C NTC 20 kΩ at 25 °C NTC 100 kΩ at 25 °C	3 % accuracy B35/50: 3935 B35/50: 3935 B35/50: 3630 B35/50: 4200 B35/50: 4200
AES3-HTp1-A3 AES3-HTp2-A3 AES3-HTk5-A3	PT100 PT1000 NI1000	EN 60751 EN 60751 5000 ppm/K
AEC-USB-01	RS485 USB-interface	for use with EasySet or GSM-DSA RS485
AMS-1	Weather protection fitting for SOC, SDC	Option for SOC-H1, H1T, H1T1, T1
AMF	Duct mounting flange for duct sensors Ø 6 or 14mm	
AMM-UD-W	Frame and mounting plate for OPT1 devices	Frame and mounting plate for rectangular connection box



Vector Controls, your reliable partner for measurement and control

Customer groups	Experiences
Building owners and managers	„Reduced operating costs, increased life quality“ ▲ Automatic switching of occupied/unoccupied modes, heating/cooling, and setpoint shifts based on 7-day programmable time schedules, remote temperature or occupancy sensor input. ▲ Password-protected control settings, no need for unattractive covers. ▲ Customizable minimum and maximum setpoints and mode shift levels save energy. ▲ Large customizable LCD display and attractive housings appropriate for any décor.
Distributors	„Less inventory, more applications, clear sales channels, competitive pricing“ ▲ The Vector Controls parameter setting system allows one product to cover a wide range of applications, so you can keep stock levels down and turn-over up. ▲ Simple application specific parameter configuration, allowing your customers to quickly and accurately apply the products to suite their applications. ▲ Full range of controllers, sensors, operational terminals and accessories. ▲ Competitive pricing and clear sales channels make Vector a reliable long-term business partner.
Contractors	„A solid product-line I can count on“ ▲ Full range of robust and accurate controllers, sensors, operational terminals and accessories that cover most HVAC applications from VAV to air handling to radiant systems; temperature, humidity, VOC and pressure control. ▲ Wall and cabinet mounted controllers with sophisticated easy to implement PI control features with no separate configuration tools required. ▲ Simple application specific parameter configuration, allowing your customers to quickly and accurately apply the products to suite their applications.
Manufacturers (OEM)	„Reliable technology with a long-term partnership“ ▲ The Vector product platform is well suited to customization at large as well as medium volume levels. ▲ The Vector Controls engineering team in Switzerland provides professional assistance in developing creative solutions to product and engineering challenges. ▲ Parameter based configuration offers the flexibility needed for basic and complex applications. ▲ A twenty-year record of success working with OEMs world-wide makes Vector a logical partner for controls and sensors.



**Efficient use of energy -
For a better future**

Quality - Innovation - Partnership
Vector Controls GmbH



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