Product Catalogue 2023
HVAC controls and power

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HVAC

Specialized expertise within HVAC controls and power

OJ ELECTRONICS

Update adds benefits
OJ Air2 and OJ Air Cloud®

To ensure close monitoring of the AHU and a shorter response time for service providers, the OJ Air2 controller and OJ Air Cloud® have been updated, allowing you to offer decentralised monitoring, testing, and critical adjustment to service providers.

Everybody benefits from the update

- Facility managers can ensure more hours of flawless performance and reduce hours of redundant control and tests.

- Service providers will be able to foresee problems and solve sudden issues faster, allowing them to service more customers, using the same staff.

- AHU manufacturers will likely be able to reduce expenses on warranty cases, as problems are far easier to solve remotely. This makes happy and loyal contractors and building developers and retain good customer relations.
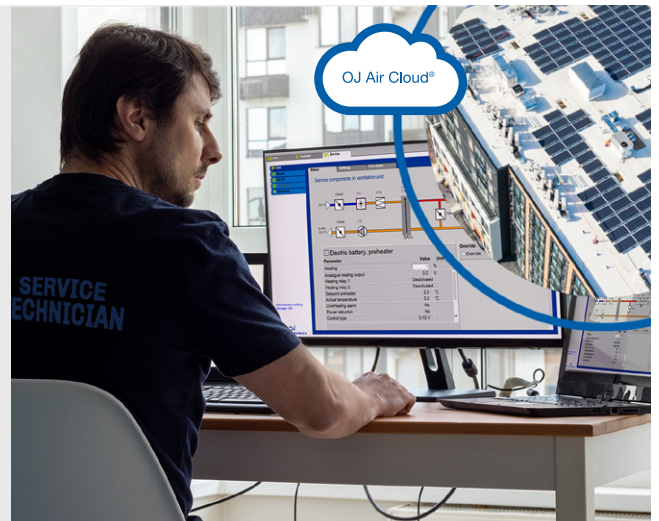
VCH turns into
A Full Series of Ventilation Controllers

Regulate fans and dampers to ensure a constant flow
Perhaps you are already familiar with the VCH-3202-DI. It has a one-setpoint option and is often used to regulate fans and dampers, ensuring constant air flow/pressure in ducts in, for example, apartment blocks.

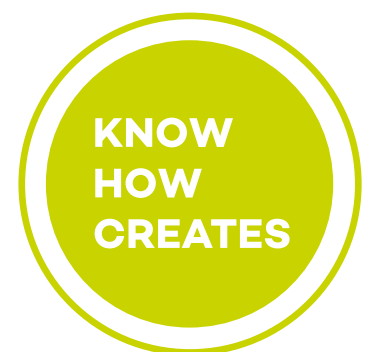### Create four setpoints and control ventilation manually
The new VCH-3212-DI allows you to create four user-defined setpoints. This is ideal for areas or buildings where manual control of the ventilation is required – e.g., in industrial kitchens.

Demand ventilation control with multiple setpoints
With the equally new VCH-3222-DI controller, you can establish ventilation systems with stepless setpoints. Reacting seamlessly to a 0-10 V signal, you can, for example, connect a CO_2 sensor and offer truly advanced ventilation. With countless setpoints available, this unit can ensure optimal airflow and constant CO_2 levels in classrooms or offices.

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Zone Controls for VAV Systems

OJ GreenZone™ HVAC zone control

OJ GreenZone™ is an intelligent and highly efficient answer to modern HVAC zone control. A combination of master controls, modules and room panels gives you complete control of each individual room or zone in your building's VAV system – whether that system is based on AHUs fitted with controls from OJ Electronics or from another manufacturer. With an OJ GreenZone™ zone controlled VAV system you can create and maintain the exact air quality and temperature you want in up to 125 individual rooms or zones.

Control up to 125 VAV zones

Each OJ GreenZone™ Master is an electronic controller capable of controlling up to 25 VAV zones in a ventilation system by means of an OJ GreenZone™ Module. And you can connect up to five Masters in a fully expanded system, bringing the total number of individual zones up to 125.
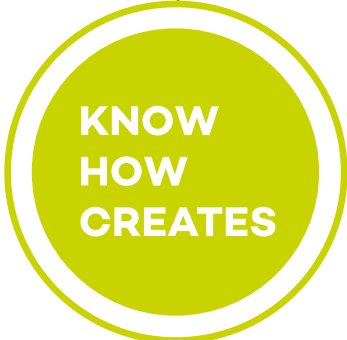
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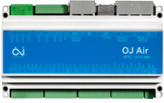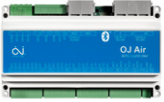|	Product type	Product features / Technical data	EAN-number
	OJ-Zonemaster	OJ Green Zone Master, 125 zones • Up to 25 zones modules on each • Energy-optimised VAV operation • Automatic configuration • BMS interface	5703502900117
	OJ-Zonemodul-A	OJ Green Zone Module, Analog actuators • Demand controlled VAV operation • Standard 0-10 V signals • Air quality and temperature • Automatic configuration	5703502900100
	OJ-Zonemodul-M	OJ Green Zone Module, Modbus actuators • Demand controlled VAV operation • Direct Modbus VAV damper • Air quality and temperature • Automatic configuration	5703502900094
	OJ-Zonemodule-MP	OJ Green Zone Module, MP-Bus actuators • Demand controlled VAV operation • MP Bus VAV damper • Air quality and temperature • Automatic configuration	5703502903279
	OJ-RPT-20T	OJ Green Zone room panel with touch screen	5703502903262
	ETFWP-998	Room Control Panel with temperature sensor • PT-1000 sensor • Setpoint offset potentiometer • Zone Module-xx compatible	5703502900193

OJ AIR Controls
for Compact AHU's

This is the AHU controller for smaller-scale ventilation applications. Here you get genuine OJ quality at cost-efficient prices: the AHC-3000 offers all the standard functions required by most of your customers – and pre-programmed add-on options makes the system entirely scalable while avoiding the costs of customised programming.

A simpler controller

Simple, straightforward controller designed for smaller system types such as decentral ventilation and compact air handling units – and it also lets you benefit from the equally new OJ Air Cloud® system. Here, OJ quality meets cost-efficiency. We believe that this will help you create even more competitive solutions – and reach new markets for smaller-scale systems.

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	Product type	Product features / Technical data	EAN-number
	AHC-3000-T	AHU Controller TCP/IP • Free OJ Air Cloud® • Touch Screens • BasicBMS and remote units • Modbus TCP/IP and RTU • QuickPlug™ modbus	5703502906423
	AHC-3000-B	AHU Controller Bluetooth • OJ Air Cloud® via Bluetooth® • Touch Screens • BasicBMS and remote units • Modbus RTU • QuickPlug™ modbus	5703502906430
	AHC-3000-S	AHU Controller Standard • 2" Touch Screen panel • 3,5" Touch Screen panel • BasicBMS - 25 room network • BMS modbus RTU	5703502906416
	AHC-3000-HMI-35T	Touch Control Panel 3.5" • OJ Air AHC-3000 compatible • Intuitive user interface • Countersunk wall mounting • QuickPlug™ installation	5703502906454
	AHC-CONNECT-K1	A complete package of mating parts for the AHC-3000 controllers • Screw terminals	5703502906447
	OJ-AIR2-HMI-20T	Touch Control Panel 2" • OJ Air2 and AHC-3000 compatible • User-friendly • Built-in temperature sensor • QuickPlug™ installation	5703502905327

	Product type	Product features / Technical data	EAN-number
	OJ-AIR2-EXT	Extension for ventilation • Adds a Heating/Cooling stage • Two temperature measurement • Two analogue inputs & outputs • Two digital inputs & outputs • QuickPlugTM installation	5703502701103
	OJ-AIR2SPLIT	DIN-rail cable connection point • QuickPlug™ Modbus • 4 x RJ12 plugs • 2 x Spring terminal blocks • Power terminals Gnd and +24V • Modbus terminals B and A	5703502701622
	OJ-USB2RS485-CONV	USB to Modbus RS485 converter • Ready for use with OJ Electronics PC-tools • 3 meter cable and RJ12 plug • Sturdy 2.5kV isolation barrier • Suitable for Service • Suitable for Production lines	5703502907918

OJ Air Pressure

The OJ Air Pressure range packs four decades of application know-how into smart, simple ventilation controllers and pressure transmitters to fit your specific application needs. This range has exactly what you need to monitor and control air flow and pressure. Anywhere at all. And with astounding accuracy.

Expanded range of pressure transmitters

OJ Electronics was the first to introduce the kind of advanced, easy-to-use and highly accurate pressure transmitters you will find in our PTH series. By popular demand we have expanded that range, creating variants that are ideally suited for a vast selection of applications. You can get pressure transmitters, ventilation controllers, pressure transmitters with relays and dual-input pressure transmitter from us.

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	Product type	Product features / Technical data	EAN-number
	PTH-3202	Analog Pressure Transmitter • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges	5703502550275
	PTH-3202-CK	Analog Pressure Transmitter • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges • Incl. connection kit	5703502550886
	PTH-3502	Analog Pressure Transmitter • 0-5000Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges	5703502550831
	PTH-3502-CK	Analog Pressure Transmitter • 0-5000Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges • Incl. connection kit	5703502551210
	PTH-3202-DF	Analog Pressure Transmitter • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges • Display shows either Pressure or Flow	5703502550695
	PTH-3202-DF-CK	Analog Pressure Transmitter • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges • Display shows either Pressure or Flow • Incl. connection kit	5703502550893

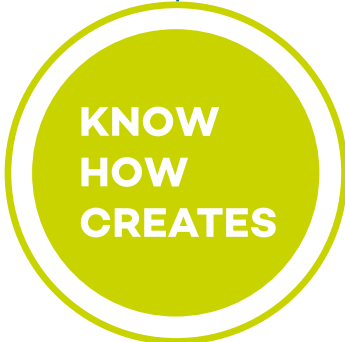|	Product type	Product features / Technical data	EAN-number
	PTH-3203-DF	Analog Pressure Transmitter • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 10 measuring ranges • Display shows either Pressure or Flow	5703502551333
	PTH-3502-DF	Analog Pressure Transmitter • 0-5000Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges • Display shows either Pressure or Flow	5703502550848
	PTH-3502-DF-CK	Analog Pressure Transmitter • 0-5000Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • 8 measuring ranges • Display shows either Pressure or Flow • Incl. connection kit	5703502551227
	PTH-6201	Modbus RTU Pressure Transmitter • 0-2500Pa • Screw terminals	5703502551326
	PTH-6201-CK	Modbus RTU Pressure Transmitter • 0-2500Pa • Screw terminals • Incl. connection kit	5703502900803
	PTH-6201-DF	Modbus RTU Pressure Transmitter • 0-2500Pa • Screw terminals • Display shows either Pressure or Flow	5703502900155
	PTH-6202	Modbus RTU Pressure Transmitter • 0-2500Pa • RJ12 connector • QuickPlug™	5703502550930
	PTH-6202-CK	Modbus RTU Pressure Transmitter • 0-2500Pa • RJ12 connector • QuickPlug™ • Incl. connection kit	5703502904849
	PTH-6502	Modbus RTU Pressure Transmitter • 0-5000Pa • RJ12 connector • QuickPlug™	5703502551319
	PTH-6201-2	Dual Modbus RTU Pressure Transmitter • 2 x 0-2500Pa • 2 x temperature input for either NTC12k or PT1000 • Spring connectors	5703502903859
	PTH-6501-2	Dual Modbus RTU Pressure Transmitter • 2 x 0-5000Pa • 2 x temperature input for either NTC12k or PT1000 • Spring connectors	5703502903866

	Product type	Product features / Technical data	EAN-number
	PTH-6202-2	Dual Modbus RTU Pressure Transmitter • 2 x 0-2500Pa • 2 x temperature input for either NTC12k or PT1000 • Spring connectors for temperature • RJ12 connectors for Modbus • QuickPlug™	5703502903873
	PTH-3202-DR	Analog Pressure Transmitter • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • Relay • Display shows either Pressure or Flow	5703502903842
	VCH-6201-DI	Modbus RTU Ventilation Controller • 0-2500Pa • Screw terminals • Designed for controlling OJ-DV products • Display shows either Pressure or Flow • 1 setpoint	5703502903835
	VCH-3202-DI	Analog Ventilation Controller • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Screw terminals • Display shows either Pressure or Flow • 1 setpoint	5703502903828
	VCH-3212-DI	Analog Ventilation Controller • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Spring connectors • Display shows either Pressure or Flow • 4 setpoints	5703502906904
	VCH-3222-DI	Analog Ventilation Controller • 0-2500Pa • 0-10V, 2-10V, 0-20mA or 4-20mA • Spring connectors • Display shows either Pressure or Flow • 1 variable setpoint via 0-10V input	5703502910055
	VCH-1212-P	Ventilation Controller for Pressure • Powered by 230VAC • 3 set points • Screw terminals • Works with Analog or Modbus Pressure Transmitters (Delivered without Pressure Transmitter) • Controls output: 0-10V • Controls output: OJ-DV products	5703502903880
	PTH-CONNECTION-KIT	PTH-connection kit • Tube, 2 m • 2 x tube connection	5703502908298
	VCH-DV-CABLE	Cable to connect VCH and DV, 1 m	5703502908311
	DIN-RAIL-MOUNT	All OJ Air Pressure products can be delivered with DIN-rail mounting. Contact our sales department	n/a

Rotary Heat Exchanger Drives & Motors

The DRHX range is based on stepper motor technology and sensorless motor control. It is equipped with a sophisticated software that monitors the rotation of the rotor, which means that no physical/optical rotor guard is required. Instead the DRHX uses the feedback signal from the motor to calculate if the belt is broken, additionally the feedback signal ensure that the motor gets exactly the current it needs to supply the right speed and torque. The DRHX series covers the range from 1Nm to 14Nm with both Modbus and analogue control. Additionally a version with a 3x7-segment display is available. The DRHX range is designed to be very easy to install, compact and flexible as possible. Their small size make them easy to fit in, and you can place them horizontally or vertically. (Drive, motor and cable shall be ordered individual).

- Energy-optimum recovery
- OJ Air2 compatible
- Gear-free technology ensures accurate control throughout wide speed range.
- Sensorless rotation monitor – no physical/optical rotor guard 'is required.
- Wide product range from 1Nm to 14Nm
- Modbus, 0-10V control and 3x7-segment display

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	Product type	Product features / Technical data	EAN-number
	OJ-DRHX-1055-MNN5	Drive for stepmotor • 55W, 1/2Nm • 1x230V supply • Modbus interface • IP54	5703502905969
	OJ-DRHX-1055-MAD5	Drive for stepmotor • 55W, 1/2Nm • 1x230V supply • Modbus & 0-10V DC interface • 3x7-segment display • IP54	5703502906133
	OJ-DRHX-1055-NCN5	Drive for stepmotor • 55W, 1/2Nm • 1x230V supply • Constant speed 200RPM • IP54	5703502908045
	OJ-DRHX-1220-MNN5	Drive for stepmotor • 110/220W, 4/8Nm • 1x230V supply • Modbus interface • IP54	5703502905976
	OJ-DRHX-1220-NCN5	Drive for stepmotor • 110/220W, 4/8Nm • 1x230V supply • Constant speed 200RPM • IP54	5703502908052

	Product type	Product features / Technical data	EAN-number
	OJ-DRHX-1220-MAD5	Drive for stepmotor • 110/220W, 4/8Nm • 1x230V supply • Modbus & 0-10V DC interface • 3x7-segment display • IP54	5703502905983
	OJ-DRHX-1690-MAN5	Drive for stepmotor • 690W, 14Nm • 1x230V supply • Modbus & 0-10V DC interface • IP54	5703502906140
	OJ-DRHX-1790-MAN5	Drive for stepmotor • 790W, 14Nm • 1x230V supply • Modbus & 0-10V DC interface • IP54	5703502908915
	MRHX-3P01N-03C5	Stepmotor 1Nm • 3-phase • Dimension 56 x 56 x 97mm	5703502908090
	MRHX-3P02N-03C5	Stepmotor 2Nm • 3-phase • Dimension 85 x 85 x 67 mm	5703502906331
	MRHX-3P04N-03C5	Stepmotor 4Nm • 3-phase • Dimension 85 x 85 x 97 mm	5703502906348
	MRHX-3P08N-03C5	Stepmotor 8Nm • 3-phase • Dimension 85 x 85 x 156 mm	5703502906355
	MRHX-3P14N-03C5	Stepmotor 14Nm • 3-phase • Dimension 134 x 134 x 170 mm	5703502906515
	930006B	DRHX motor bracket for pulley <100mm	5703502908694
	930009C	DRHX motor bracket for pulley 100 to 180mm	5703502908700

	Product type	Product features / Technical data	EAN-number
	97301	Motor extension cable 0.5 m	5703502908625
	97302	Motor extension cable 2.0 m	5703502908632
	97303D	Motor extension cable 3.0 m	5703502908649
	97304D	Motor extension cable 5.0 m	5703502908656
	93938	Pulley spa 80/1 tl1210	5703502908717
	93939	Taper lock 1210, shaft diameter 12 mm	5703502908724
	93940	Pulley spa 150/1 taper lock 1610	5703502908731
	93941	Taper lock 1610, shaft diameter 12 mm	5703502908748
	93943	Pulley spa 100/1 tl1610	5703502908755
	93944	Pulley spa 75/1 tl1108	5703502908762
	93945	Tape lock 1108, shaft diameter 12 mm	5703502908779

Temperature Controllers

Our standard range of HVAC temperature controllers are our simplest options and very easy to install. We offer several different models, allowing you to control temperatures in AHUs for commercial applications and HVAC systems on any scale. You can explore our basic temperature control range below – and if you want something more advanced, we recommend our OJ Air2 system.
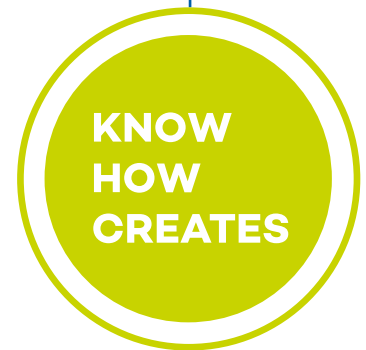
Extensive range for temperature control

The OJ Electronics range for HVAC temperature control includes:

- Air handling controllers
- Temperature controllers for DIN-rail mounting
- Temperature controllers for wall mounting

Simple installation, reliable operation

Turn a knob. That's all you need to do to set these HVAC temperature controllers. There are no webservers involved, no sophisticated functions to remember.

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	Product type	Product features / Technical data	EAN-number
	ETN4-1999	Temperature Controller • Digital termostat • Din-rail mount • -19.5°C/70.0°C • 230V, 16A • Incl. NTC12K sensor, 3m	5703502650289
	TRD-3986	Air handling controller for small and medium sized ventilation systems • Two analog 0-10V outputs for: • Control of one heating battery • Sequential control of two heating batteries • Sequential control of heating battery and cooling battery • Sequential control of cross-flow heat exchanger and heating battery • Sequential control of rotary heat exchanger and heating battery • Two 250 VAC relays for Damper motors and Start/Stop of fans • Two inputs for PT1000 • Frost protection for heating batteries • Din-rail mount • 24VAC/DC	5703502550497
	ETI-1221	Industry Thermostat • Thermostat for 35 mm din rail mounting • +10/+110°C, 230V, 10A	5703502532905
	ETI-1551	Industry Thermostat • Thermostat for 35 mm din rail mounting • +10/+50°C, 230V, 10A	5703502532875
	ETI/F-1551	Industry Thermostat • Thermostat for 35 mm din rail mounting • Incl. NTC12K sensor • +10/+50°C, 230V, 10A	5703502532998

	Product type	Product features / Technical data	EAN-number
	EFRP-31	Temperature controller for DIN-rail • 14-24VAC / 0-10V DC • External sensor and night setback using an external clock. 1-step (0-10VDC or 10-0 VDC) P-Reg. *All ETF-xx44 sensors (NTC12K) can be used*	5703502540849
	EFRP-91	Temperature controller for wall mounting • 14-24VAC / 0-10V DC • Internal sensor and night setback using an external clock. 1 step (0-10VDC or 10-0 VDC) P-Reg. *All ETF.xx44 sensors (NTC12K) can be used*	5703502540856

Power Controllers

Power and step controllers for easy integration with electric heater coils

At OJ Electronics you will find a range of TRIAC controls to control electric heater coils in AHUs. And you will find them easy to work with: each model is designed for easy integration with any range of heater coils for comfort heating.

The OJ range of TRIAC control options includes:

- Power controllers with 1 or 2 phases
- DIN-rail power controller
- Step controls

Accurate and durable electric heat control

The OJ power and step controllers are engineered to give you several benefits, including

- accurate, noiseless control
- long life expectancy

The built-in PID controller makes installation and operation simple, straightforward and reliable, saving you money on installation and power consumption. The TRIAC range starts at 1x16 amps (3.6 kW) and goes all the way up to 2x16 amps (10 kW).

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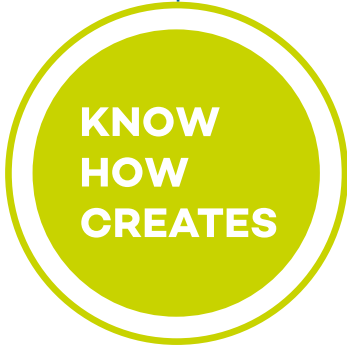
	Product type	Product features / Technical data	EAN-number
	EFM-9251	Power controller for DIN-rail • 25A • 230V / 5.7 kW, 400V / 10 kW	5703502540801
	EFM-9161	Power controller for DIN-rail • 16 A • 230 V / 3.7 kW, 400 V / 6.4 kW	5703502540795
	EFRP-900	Potentiometer for wall mounting • 12-24VDC or 24VAC • 0-10V DC out • Scale range 0-100% • EFM compatible	5703502540986
	EFK-23	Power controller for surface wall mounting • 16A • 230V/3.6kW	5703502550442
	EFK-40	Power controller for surface wall mounting • 16A • 400V/6.4kW	5703502550572
	EFH-23	Power controller for bulit-in • 16A • 230V/3.6kW	5703502550589
	EFH-40	Power controller for bulit-in • 16A • 400V/6.4kW	5703502550596
	ETT-6-11	Step controller for DIN-rail • With 6 relays • 230V, 6x6A	5703502532042
	ETT-6-31	Step controller for DIN-rail • With 6 relays • 24V, 6x6A	5703502532066

All ETF-xxx/99 sensors (NTC) can be used

Temperature Sensors

The OJ range of electronic temperature sensors are used as signal emitters for electronic thermostats, regulators and thermometers. Many different versions are available, ensuring that you can get a temperature sensor for almost any application. For example, you can get sensors for installation in floors, on walls, in machinery, pipes, in tanks, watertight spaces or outdoor.

Rapid response times

Each of our temperature sensors (known as the ETF series) contains a resistance sensor element (NTC or PT 1000) enclosed in a housing of plastic or metal – and every ETF model has been designed to achieve the shortest possible response times. This is ensured by using resistance sensors that convert temperature into ohmic resistance.

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	Product type	Product features / Technical data	EAN-number
	ETF-122	Sensor, floor heating • Frost protection • Tubular receptacle • NTC, 12 kOhm @ 25°C • -40/+120°C • Ø 6.5 x 30 mm, 2.5 m cable	5703866100468
	ETF-144S	Ventilation sensor • NTC, 12 kOhm @ 25°C • -30/+70°C • Ø 5.0 x 20 mm, 3 m cable	5703502910734
	ETF-144/99A	Sensor, floor heating • Frost protection • Tubular receptacle • NTC, 12 kOhm @ 25°C • Double insulated • -20/+70°C • Ø 6.5 x 30 mm, 2.5 m cable	5703866101069
	ETF-144/99A-10M	Sensor, floor heating • Frost protection • Tubular receptacle • NTC, 12 kOhm @ 25°C • -20/+70°C • Ø 6.5 x 30 mm, 10 m cable	5703502908793
	ETF-622	Surface mount sensor • NTC, 12 kOhm @ 25°C • -40/+120°C • 2.5 m cable • 8x12 mm, ø3,5 mm hole	5703866101700
	ETF-744/99	Watertight space/external sensor • NTC, 12 kOhm @ 25°C • -20/+70°C • 85 x 45 x 35 mm, IP54	5703866101854

	Product type	Product features / Technical data	EAN-number
	ETF-822	Sensor, non-aggresive liquids • NTC, 12 kOhm @ 25°C • -40/+120°C • Ø 6.5 x 200 mm, 1/4" pipe thread max. 6 atm, 2.5 m cable	5703866101939
	ETF-1144/99AN	Ventilation sensor • NTC, 12 kOhm @ 25°C • -10/+60°C • Ø 6,5 x 200 mm, maks. 0.5 atm, • 2.5 m cable	5703502500539
	ETF-1899A	Plant sensor • NTC, 12 kOhm @ 25°C • -20/+70°C • 2.5 m cable	5703866080357
	ETF-198B-5	Ventilation sensor • -40/+150°C, 1000 Ohm @ 0°C • PT-1000 • Ø 5 x 20 mm, 5 m cable	5703502903125
	ETF-598B-5	Ventilation sensor • -40/+150°C, 1000 Ohm @ 0°C • PT-1000 • Ø 6 x 32 mm, 5 m cable	5703502903132
	ETF-598B-3A	Ventilation sensor • -40/+150°C, 1000 Ohm @ 0°C • PT-1000 • Ø 7 x 53 mm, 3 m cable	5703502908106
	ETF-998-H	Room sensor/wall installation • PT-1000, 1000 Ohm @ 0°C • -20/+70°C • 79 x 80 x 16 mm, IP20, white	5703502500300
	ETF-1198	Ventilation sensor • PT-1000, 1000 Ohm @ 0°C • -50/+165°C • Ø 6,5 x 200 mm, maks. 0.5 atm, • 2.5 m cable	5703866100444
	ETF-1198-SR-1/2	Watersensor for heater • PT-1000, 1000 Ohm @ 0°C • -50/+165°C, 1/2" tapered screw thread • Ø 3 x 250 mm, 10 m cable	5703502500881
	ETF-1198SR	Watersensor for heater • PT-1000, 1000 Ohm @ 0°C • -50/+165°C, 1/4" tapered screw thread • Ø 3 x 250 mm, 10 m cable	5703502660080
	ETF-1698	Pipe surface • PT-1000, 1000 Ohm @ 0°C • -50/+70°C • 30 x 60 x 30 mm, maks. pipe diameter • 115 mm • Incl. clamp	5703866100802

Temperature Transmitters

Our series of Modbus temperature transmitters allows you to measure and control temperatures in your HVAC installations with great accuracy. Available in different mechanical variants to fit ducts or rooms, our Modbus temperature transmitters are very easy to install.

Rapid and efficient response

Our Modbus temperature transmitters deliver the temperature data digitally via Modbus RTU technology. This ensures that measurement accuracy is not reduced by cable losses, bringing you highly reliable data. You system can respond swiftly and efficiently to adjust temperatures as required.

Temperature transmitters for ducts, rooms or outdoor

Our Modbus temperature sensors come in three variants:

- TTH-6202 – for flexible installation in ventilation ducts, supplied with pre-fitted 7m cable
- TTH-6040-W – a stylish option for wall installation in rooms
- TTH-6040-O – a robust version for outdoor installation.

The sensors feature Modbus RTU connectivity and are fully compatible with advanced system solutions such as OJ Air2.

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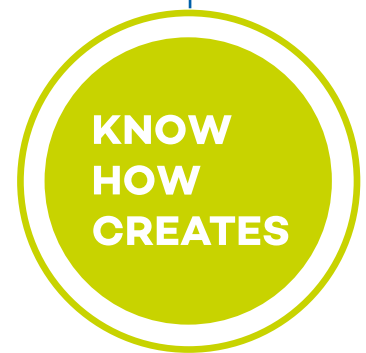|	Product type	Product features / Technical data	EAN-number
	TTH-6040-W	Modbus RTU temperature sensor • -10/+40°C • Wall mounting • Including a junction box for conversion from 4-core cable to modular Modbus cable RJ12 • QuickPlug™	5703502903996
	TTH-6040-O	Modbus RTU temperature sensor • -30/+50°C • Outdoor mounting • Including a junction box for conversion from 4-core cable to modular Modbus cable RJ12 • QuickPlug™	5703502907789
	TTH-6202	Modbus RTU temperature sensor • -10/+40°C • Duct sensor • 7m cable with RJ12 connector • QuickPlug™	5703502903095

Air Quality Sensors

Our VOC air quality sensors allow your air handling system to be demand controlled in accordance with the level of volatile organic compounds (VOCs) in the air. These air quality sensors monitor the air quality in ventilation ducts on the basis of its content of VOCs, which can come from many sources: people, furnishings, cleaning agents, building materials, etc.

The air quality sensor transmits this information via Modbus to your chosen electronic controller (in e.g. PLC, BMS or SCADA systems), allowing it to respond accordingly.

Converts VOC concentrations into CO_2 equivalents

The VTH air quality sensors automatically convert VOC concentration levels into a CO_2 equivalent, which means that you can easily use them instead of CO_2 sensors.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	VTH-6202	VOC/ CO_2 (equivalent) transmitter • Ø 19 x 160 mm w. flange for duct mounting • 7m cable with RJ12 connector • QuickPlug™	5703502722290
	VTH-6242	VOC/ CO_2 (equivalent) transmitter • Ø 19 x 160 mm w. flange for duct mounting • Connection 4 x 1.5mm2 screw terminals	5703502901787

OJ Air Humidity

The OJ Air Humidity range covers both general and specialized needs. Our HTH series of humidity transmitters are ideal for any application where you need a humidity sensor. Available in versions for installation in rooms or ventilation ducts, these humidity transmitters measure the current air humidity with great accuracy so that your demand-controlled ventilation system can respond quickly and efficiently to changing conditions.

For more specific tasks, we offer our NVP moisture alarm relays as well as our EHP controllers, which are used with analogue humidity transmitters to control humidifiers and/or dehumidifiers.

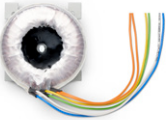## Measuring humidity and temperature – Modbus output

Our HTH-62xx humidity transmitters are designed for duct installation and are capable of measuring humidity and temperature. Data is transmitted via Modbus, and flexible length options make these humidity sensors suitable for ventilation systems on any scale.

KNOW HOW CREATES

	Product type	Product features / Technical data	EAN-number
	HTH-6121	Humidity transmitter for surface wall mounting • Output signal 4-20 mA • 10-100% rH • 8-20V DC	5703502560113
	HTH-6202	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • 7m cable with RJ12 connector • QuickPlug™ • Address: 7Ah	5703502560168
	HTH-6203	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • 7m cable with RJ12 connector • QuickPlug™ • Address: 7Bh	5703502722023
	HTH-6204	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • 7m cable with RJ12 connector • QuickPlug™ • Address: 7Ch	5703502560199

	Product type	Product features / Technical data	EAN-number
	HTH-6242	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • Connection 4 x 1.5mm2 screw terminals • Address: 7Ah	5703502901817
	HTH-6243	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • Connection 4 x 1.5mm2 screw terminals • Address: 7Bh	5703502901800
	HTH-6244	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • Connection 4 x 1.5mm2 screw terminals • Address: 7Ch	5703502901794
	HTH-6245	Modbus RTU Humidity and Temperature transmitter • 18-30VDC • Ø 19 x 250 mm w. flange for duct mounting • Connection 4 x 1.5mm2 screw terminals • Address: 7Dh	5703502903378
	F-NVP-15	Moisture and water leakage alarm for DIN-rail installation • 230V • 10A	5703502410142
	F-NVP-16	Moisture and water leakage alarm with audible alarm signal for DIN-rail installation • 230V • 10A	5703502410135
	F-NVP-35	Moisture and water leakage alarm for DIN-rail installation • 24V • 10A	5703502560045
	F-NVPF-16	Moisture and water leakage alarm • Plant sensor	5703866102806
	F-NVPF	Moisture and water leakage alarm • Sensing ribbon • Sensor tape, by the metre	5703502510736
	F-NVPF	Moisture and water leakage alarm • Sensing ribbon • Sensor tape, by the metre, > 50 meters	5703502510736

Accessories

	Product type	Product features / Technical data	EAN-number
	OJ-Air2-WP55	Room temperature sensor • Set point offsetting ±5°C • PT1000 sensor • OJ-Air2 compatible	5703502701707
	OJ-Air2PWR80	Trafo for DIN-rail mounting • 1 x 230, 2 x 24V/2 x 60VA	5703502701738
	ETT-KH	Cover for GreenZone modules, ETT-6 and TRD, wall mounting	5703502590042
	RJ12-COLLECTOR	RJ12 COLLECTOR is a unit for connecting 2 x RJ12 cable connectors	5703502590257
	RJ12-TSPLIT	RJ12 TSPLIT is a unit for connecting 1 x RJ12 cable and splitting it into 2 x RJ12 cable connectors	5703502590264

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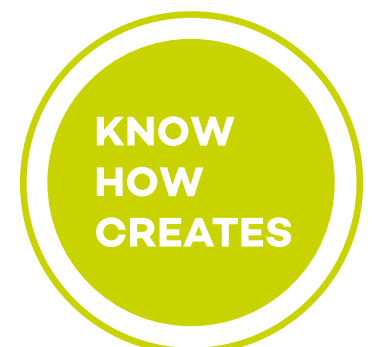
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The OJ Way

The OJ Way is the unique tie-in of product leadership, global supply chain, perfect platforms for customisation, industry best quality processes, and a diamond partnership in one coherent package.

All processes are focused on the same general goal – to improve the climate – always – through connected electronics solutions.

In this way, we help you differentiate in the market.
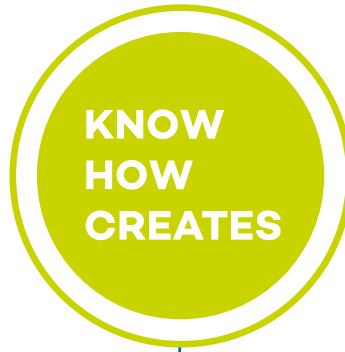
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