

2016

Thermokon Products Catalogue



Intelligent Building Controls Ltd.

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Room controllers

Touch Screen

The thanos touch screen room operating unit has integrated temperature and optional humidity sensors for operation of HVAC, lighting and blind control. Integrated quality optics, the Thanos is ideal for high end design applications. Programmable operating function keys allowing flexibility for custom room designs.



Part Number	Description	Price
Thanos L black RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP20, Display, Buttons panel, Black	€567.70
Thanos L white RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP20, Display, Buttons panel, White	€567.70
Thanos S black RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP20, Display, Black	€523.10
Thanos S white RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP20, Display, White	€523.10
Thanos rH L black RS485 Modbus	Room, Temp/RH, Modbus, 0...50°C/0...100%, 24Vac/Vdc, ±5°C/±3%, IP20, Display, Buttons panel, Black	€632.30
Thanos rH L white RS485 Modbus	Room, Temp/RH, Modbus, 0...50°C/0...100%, 24Vac/Vdc, ±5°C/±3%, IP20, Display, Buttons panel, White	€632.30
Thanos rH S black RS485 Modbus	Room, Temp/RH, Modbus, 0...50°C/0...100%, 24Vac/Vdc, ±5°C/±3%, IP20, Display, Black	€587.70
Thanos rH S white RS485 Modbus	Room, Temp/RH, Modbus, 0...50°C/0...100%, 24Vac/Vdc, ±5°C/±3%, IP20, Display, White	€587.70

Room Operating Panel

The room operating panel is designed for temperature detection and integrated operation of HVAC applications for single room control. By means of high-graded optics and a corresponding design frames of different switch programmes, the device is specially ideal for design-oriented applications. The operating functions can be flexibly adapted to different room layouts.



Part Number	Description	Price
WRF06 LCD AO2V RS485 Modbus ltype1 Gira E2 pure white	Room, Temp, 0...10V/10mA/Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, 2 digital inputs	€244.60
WRF06 LCD DI4 RS485 Modbus ltype1 Gira E2 pure white	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, 4 digital inputs	€244.60
WRF06 LCD DO2R RS485 Modbus ltype1 Gira E2 pure white	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, 2 inputs, 2 outputs relay	€274.30
WRF06 LCD DO2T RS485 Modbus ltype1 Gira E2 pure white	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, 2 inputs, 2 outputs Triac	€274.30
WRF06 LCD OVR RS485 Modbus ltype1 Gira E2 pure white	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, 2 inputs, 2 outputs (1x 0..10 V, 1 relay)	€274.30
WRF06 LCD OVT RS485 Modbus ltype1 Gira E2 pure white	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, 2 inputs, 2 outputs (1x 0..10 V, 1 Triac)	€274.30
WRF06 S without sensor Gira E2 pure white, FS5	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, FS5	€82.80
WRF06 TD without sensor Gira E2 pure white, LED green	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±5°C, IP30, LED green	€63.90
WRF06 TD NTC10k Gira E2 pure white, LED green	Room, Temp, Modbus, Resistive, 0...50°C, 24Vac/Vdc, ±5°C, IP30, LED green	€69.60

Room Controller Joy

Modern design, flush mounting fan coil room thermostat. Used for individual control of temperature in commercial, industrial and residential buildings. It is tailored for two-pipe and four-pipe fan coil units with two-wire electric valves. The device combines a modern design with a 2,5" LCD and a touch-sensitive surface, 3 time program options each with 4 time periods options.



Part Number	Description	Price
JOY Fancoil 3DI pure white	Room, Temp, On/Off switch, 0...50°C, 230Vac, ±1°C, Display, 2 Heating/cooling, 3 fanspeed Output	€162.00
JOY Fancoil RS485 Modbus pure w	Room, Temp, Modbus, 0...50°C, 230Vac, ±1°C, Display	€168.00

Room Controller LCF

The fan coil room thermostat has been designed for individual control of temperature in commercial, industrial and residential buildings. It is tailored for two-pipe and four-pipe fan coil with two-wire electric valves. With its flush mounted modern design the device combines digital technology with a large LCD display and additional buttons, which enables the single room controller to be used



Part Number	Description	Price
LCF Touch	Room, Temp, On/Off switch, 0...50°C, 230Vac, ±1%, IP20, Display, Touch screen	€122.10
LCF Touch RS485 Modbus	Room, Temp, Modbus, 1...50°C, 230Vac, ±1%, IP20, Display, Touch screen	€136.30
LCF	Room, Temp, On/Off switch, 1...50°C, 230Vac, ±1%, IP20, Display	€40.00

Room Temperature Transmitters

Surface mounted room sensor for temperature measuring, with set point and fan stage adjustment, manual override for room and office applications.



Part Number	Description	Price
WRF04 P NTC10k, 10 kOhm	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot	€41.80
WRF04 P TRV3, 10 kOhm	Room, Temp, 0...10V/Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot	€106.40
WRF04 PSD TRV3, 10 kOhm, FS5	Room, Temp, 0...10V/Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot, Fan Switch, LED	€150.00
WRF04 PTD TRV3, 10 kOhm	Room, Temp, 0...10V/Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot, Override, LED	€131.10
WRF04 PSTD TRV3, 10 kOhm, FS5	Room, Temp, 0...10V/Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot, FS5	€188.40
WRF04 P AO2V BACnet	Room, Temp, BACnet, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot	€154.20
WRF04 PSD AO2V BACnet, FS5	Room, Temp, BACnet, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot, Fan switch, LED	€179.40
WRF04 PTD AO2V BACnet	Room, Temp, BACnet, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot, Override, LED	€161.90
WRF04 PSTD AO2V BACnet, FS5	Room, Temp, BACnet, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot, Fan Switch, LED, Override	€195.40
WRF04 PSTD LON, FS5	Room, Temp, LON FTT10, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Fan Switch, LED, Override	€211.40
WRF04 P AO2V RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot	€154.20
WRF04 PSD AO2V RS485 Modbus,	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot, Fan switch, LED	€179.40
WRF04 PTD AO2V RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot, Override, LED	€161.90
WRF04 PSTD AO2V RS485	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Setpoint pot, Fan Switch, LED, Override	€195.40
WRF04 P DO2R RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Relay output	€195.80
WRF04 PSD DO2R RS485 Modbus,	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Fan switch, LED, Relay output	€221.00
WRF04 PTD DO2R RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Override, LED	€203.50
WRF04 P DO2T RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Triac	€195.80
WRF04 PSD DO2T RS485 Modbus,	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Fan switch, LED, Triac	€221.00
WRF04 PTD DO2T RS485 Modbus	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, Setpoint pot, Override, LED, Triac	€203.50
WRF04 LCD P TRV3, 10 kOhm	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30, Display, Setpoint pot	€146.10
WRF04 LCD PSD TRV3, 10 kOhm,	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30, Display, Setpoint pot, Fan switch, LED	€189.70
WRF04 LCD PTD TRV3, 10 kOhm	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30, Display, Setpoint pot, Override, LED	€170.80
WRF04 LCD PSTD TRV3, 10 kOhm, FS5	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30, Display, Setpoint pot, Fan Switch, LED, Override	€205.70
WRF04 LCD P AO2V RS485	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Display, Setpoint pot	€193.90
WRF04 LCD PSD AO2V RS485	Room, Temp, Modbus, 0...50°C, 24Vac/Vdc, ±1%, IP30, 2 digital inputs, Display, Setpoint pot, Fan switch, LED	€219.10
WRF04 LCD PTD AO2V RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 digital inputs, Display, Setpoint pot, Override, LED	€201.60
WRF04 LCD PSTD AO2V RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 digital inputs, Display, Setpoint pot, Fan Switch, LED, Override, Relay	€235.10
WRF04 LCD P DO2R RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Relay	€235.50
WRF04 LCD PSD DO2R RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Fan switch, LED, Relay	€260.70
WRF04 LCD PTD DO2R RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Override, LED, Relay	€243.20
WRF04 LCD P DO2T RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Triac	€235.50
WRF04 LCD PSD DO2T RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Fan switch, LED, Triac	€260.70
WRF04 LCD PTD DO2T RS485	Room, Temp, Modbus, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Override, LED, Triac	€243.20
WRF04 LCD P OVR RS485 Modbus	Room, Temp, Modbus/0...10V, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Relay	€235.50
WRF04 LCD PSD OVR RS485	Room, Temp, Modbus/0...10V, 0...50°C, 24V, 2 inputs, 2 outputs relay, Display, Setpoint pot, Fan switch, LED, Relay	€260.70
WRF04 LCD PTD OVR RS485	Room, Temp, Modbus/0...10V, 0...50°C, 24V, 2 inputs, 2 outputs relay, Display, Setpoint pot, Override, LED, Relay	€243.20
WRF04 LCD P OVT RS485 Modbus	Room, Temp, Modbus/0...10V, 0...50°C, 24V, ±1%, 2 inputs, 2 outputs relay, Display, Setpoint pot, Triac	€235.50
WRF04 LCD PSD OVT RS485	Room, Temp, Modbus/0...10V, 0...50°C, 24V, 2 inputs, 2 outputs relay, Display, Setpoint pot, Fan switch, LED, Triac	€260.70
WRF04 LCD PTD OVT RS485	Room, Temp, Modbus/0...10V, 0...50°C, 24V, 2 inputs, 2 outputs relay, Display, Setpoint pot, Override, LED, Triac	€243.20

Room Thermostat

The electronic room thermostat is designed for controlling temperature in commercial, industrial and residential



Part Number	Description	Price
LCT	Room, Temp, On/Off switch, 0...50°C, 230Vac, ±1%, IP20	€25.20

Temperature Sensors

Duct Temperature Transmitters

Duct-/Immersion temperature sensor for measuring temperature in gaseous media of heating, cooling and air-conditioning systems (e.g. fresh air / exhaust air ducts). In conjunction with an immersion pocket also suitable for temperature measurement in liquid fluids (e.g. pipeline systems). Designed for locking on to control and display systems.



Part Number	Description	Price
AKF10+ PT100 100.06	Duct, Temp, PT100, -50...160°C, 24Vdc, Accur ±3%/5%, IP65, 1m connection wire	€31.90
AKF10+ PT100 200.06	Duct, Temp, PT100, -50...160°C, 24Vdc, Accur ±3%/5%, IP65, 2m connection wire	€35.00
AKF10+ PT1000 100.06	Duct, Temp, PT1000, -50...160°C, 24Vdc, Accur ±3%/5%, IP65, 1m connection wire	€37.20
AKF10+ PT1000 200.06	Duct, Temp, PT1000, -50...160°C, 24Vdc, Accur ±3%/5%, IP65, 2m connection wire	€37.20
AKF10+ NTC10k 100.06	Duct, Temp, 10K3A1, -50...150°C, 24Vdc, Accur ±3%/5%, IP65, 1m connection wire	€31.90
AKF10+ NTC10k 200.06	Duct, Temp, 10K3A1, -50...150°C, 24Vdc, Accur ±3%/5%, IP65, 2m connection wire	€33.60
AKF10+ TRV MultiRange 100.06	Duct, Temp, 0...10V, -50...250°C, 24Vdc, Accur ±3%/5%, IP65, 1m connection wire	€75.20
AKF10+ TRV MultiRange 200.06	Duct, Temp, 0...10V, -50...250°C, 24Vdc, Accur ±3%/5%, IP65, 2m connection wire	€76.50
AKF10+ TRA MultiRange 100.06	Duct, Temp, 4...20mA, -50...250°C, 24Vdc, Accur ±3%/5%, IP65, 1m connection wire	€75.20
AKF10+ TRA MultiRange 200.06	Duct, Temp, 4...20mA, -50...250°C, 24Vdc, Accur ±3%/5%, IP65, 2m connection wire	€76.50
VA-thermowell pocket 100 mm	Accessory-VA-thermowell pocket 100 mm type THVADS100	€18.90
VA-thermowell pocket 200 mm	Accessory-VA-thermowell pocket 200 mm type THVADS200	€21.40

Outdoor Temperature Sensor

For measuring temperature in outdoor areas, in cold stores and greenhouses, production plants and warehouses. Designed for locking on control and display systems.



Part Number	Description	Price
AGS54+ PT100	Outside, Temperature, PT100, -35...90°C, Accur ±1%, IP65	€14.90
AGS54+ PT1000	Outside, Temperature, PT1000, -35...90°C, Accur ±1%, IP65	€17.10
AGS54+ NTC10k	Outside, Temperature, NTK10K, -35...90°C, Accur ±1%, IP65	€13.60
AGS54+ PT100 ext	Outside, Temperature, PT100, -35...70°C, Accur ±1%, IP65, Ext probe	€32.50
AGS54+ PT1000 ext	Outside, Temperature, PT1000, -35...70°C, Accur ±1%, IP65, Ext probe	€34.70
AGS54+ NTC10k ext	Outside, Temperature, 10K3A1, -35...70°C, Accur ±1%, IP65, Ext probe	€31.20
AGS54 TRV MultiRange ext	Outside, Temperature, 0...10V, -35...70°C, 24Vac/Vdc, Accur ±1%, IP65	€75.30
AGS54 TRA MultiRange ext	Outside, Temperature, 4...20mA, -35...70°C, 24Vac, Accur ±1%, IP65	€75.30
AGS54 ext. RS485 Modbus	Outside, Temperature, Modbus, -35...70°C, Accur ±1%, IP65	€75.30

Room Temperature Sensor

For temperature measuring, set point and fan stage adjustment as well as presence detection in living and office spaces etc. Designed to be used with control and monitoring systems.



Part Number	Description	Price
WRF04 PT100	Room, Temp, Resistive, PT100, 24Vac/Vdc, 0.1°C, IP30	€19.70
WRF04 P PT100 10kOhm	Room, Temp, Resistive, PT100, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot	€43.10
WRF04 PSD PT100 10kOhm FS5	Room, Temp, Resistive, PT100, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot, Fan switch, LED	€86.00
WRF04 PTD PT100 10kOhm	Room, Temp, Resistive, PT100, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot, Override, LED	€67.10
WRF04 PSTD PT100 10kOhm FS5	Room, Temp, Resistive, PT100, 24Vac/Vdc, 0.1°C, 10kOhm setpoint pot, Setpoint pot, Fan Switch, LED, Override	€102.00
WRF04 PT1000	Room, Temp, Resistive, PT1000, 24Vac/Vdc, 0.1°C, IP30	€21.90
WRF04 P PT1000 10kOhm	Room, Temp, Resistive, PT1000, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot	€45.30
WRF04 PSD PT1000 10kOhm FS5	Room, Temp, Resistive, PT1000, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot, Fan switch, LED	€88.20
WRF04 PTD PT1000 10kOhm	Room, Temp, Resistive, PT1000, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot, Override, LED	€69.30
WRF04 PSTD PT1000 10kOhm FS5	Room, Temp, Resistive, PT1000, 24Vac/Vdc, 0.1°C, 10kOhm setpoint pot, Setpoint pot, Fan Switch, LED, Override	€104.20
WRF04 NTC10k	Room, Temp, Resistive, NTC10k, 24Vac/Vdc, 0.1°C, IP30	€18.40
WRF04 P NTC10k 10kOhm	Room, Temp, Resistive, NTC10k, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot	€41.80
WRF04 PSD NTC10k 10kOhm FS5	Room, Temp, Resistive, NTC10k, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot, Fan switch, LED	€84.70
WRF04 PTD NTC10k 10kOhm	Room, Temp, Resistive, NTC10k, 24Vac/Vdc, 0.1°C, IP30, 10kOhm setpoint pot, Setpoint pot, Override, LED	€65.80
WRF04 PSTD NTC10k 10kOhm	Room, Temp, Resistive, NTC10k, 24Vac/Vdc, 0.1°C, 10kOhm setpoint pot, Setpoint pot, Fan Switch, LED, Override	€100.70
WRF04 P TRV3 10kOhm	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot, Setpoint pot	€106.40
WRF04 PTD TRV3 10kOhm	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30, 10kOhm setpoint pot, Setpoint pot, Override, LED	€131.10
WRF04 TRA Multirange	Room, Temp, 4...20mA, 0...50°C, 24Vac/Vdc, ±1%, IP30	€64.60
WRF04 TRV Multirange	Room, Temp, 0...10V, 0...50°C, 24Vac/Vdc, ±1%, IP30	€64.60

Contact Temperature Sensor

Contact temperature sensor for measuring temperature on pipes and arched surfaces. Designed for control and monitoring systems.



Part Number	Description	Price
VFG54+ PT100	Clamp on, Temperature, PT100, Accur ±1%, IP65	€18.60
VFG54+ PT1000	Clamp on, Temperature, PT1000, Accur ±1%, IP65	€20.80
VFG54+ NTC10k	Clamp on, Temperature, NTK10K, Accur ±1%, IP65	€17.30
VFG54+ TRV MultiRange	Clamp on, Temperature, 0...10V, -50...120°C, 24Vac/Vdc, Accur ±1%, IP65	€71.70
VFG54+ TRA MultiRange	Clamp on, Temperature, 4...20mA, -50...120°C, 24Vac, Accur ±1%, IP65	€71.70

Ceiling Temperature Sensor

The room sensor RDF18 is designed for temperature detection in ceiling areas. Suitable for connection to control and display systems.



Part Number	Description	Price
RDF18 PT100 L1000	Room, Temperature, PT100, -35...70°C, Accur ±1%, IP65	€34.60
RDF18 PT1000 L1000	Room, Temperature, PT1000, -35...70°C, Accur ±1%, IP65	€36.80
RDF18 NTC10k L1000	Room, Temperature, NTK10K, -35...70°C, Accur ±1%, IP65	€33.20

Temperature & Humidity Sensors

Room, Temperature and Humidity Sensor

Combined sensor for measuring relative humidity and temperature in rooms (e.g. office or conference rooms). Designed for locking on control and display systems. Additionally, the device can be supplied with a passive temperature sensor e.g. PT100, PT1000, NTC10k etc.



Part Number	Description	Price
FW04A	Room,RH,0...10V,0...95%,24Vac/Vdc,Accur ±3%/5%,IP65	€204.11
FW04V	Room,RH,4...20mA,0...95%,24Vac,Accur ±3%/5%,IP65	€204.11
FTW04AS NTC10k	Room,Temp/RH,4...20mA,0...95%,24Vac,Accur ±3%/5%,IP65	€220.56
FTW04VS NTC10k	Room,Temp/RH, 0...10V,0...95%/-20...80°C,24Vac,Accur ±3%/5%/0.5/1.5°C,IP65	€220.56

Duct, Temperature and Humidity Sensor

Duct sensor for measuring relative humidity and temperature in gaseous media of heating, cooling and air-conditioning systems (e.g. in fresh air/exhaust air ducts). Designed for locking on control and display systems. Additionally, the device can be supplied with a passive temperature sensor e.g. PT100, PT1000, NTC10k etc.



Part Number	Description	Price
LCN-FTK270VV	Duct,Temp/RH,4...20mA,0...95%/-20...80°C,24Vac,Accur ±3%/5%/0.5/1.5°C,IP65	€162.18
LCN-FTW04VV	Duct,Temp/RH,0...10V,0...95%/-20...80°C,24Vac/Vdc,Accur ±3%/5%/0.5/1.5°C,IP65	€149.53

Ceiling, Temperature and Humidity Sensor

Ceiling sensor for unobtrusive humidity and temperature measurement in the ceiling area of room and office spaces. Designed for control and monitoring applications.



Part Number	Description	Price
FT-RDF18 VV	Room, Temperature/RH,0...10V, 0...50°C, 0...100%, 24Vac/Vdc, Accur ± 0.5°C/±2%, IP65	€297.10

Outdoor, Temperature and Humidity Sensor

Sensor for measurement relative humidity and temperature in outdoor areas. Designed for locking on control and display systems.



Part Number	Description	Price
FTA54 VV	Outdoor, Temperature, RH, 0...10V, 0...50°C/0...100%, 24Vac/Vdc, Accur ± 0.5°C/±2%, IP65	€195.10

Humidity Sensors

Duct, Humidity Sensor

Duct sensor for measuring relative humidity (model FK) respectively for measuring humidity and temperature (model FTK) in gaseous media of heating, cooling and air-conditioning systems (e.g. in fresh air/ exhaust air ducts). Designed for locking on to control and display systems.



Part Number	Description	Price
FK270A	Duct, RH, 4...20mA, 0...95%, 24Vac/Vdc, Accur ±3%/5%, IP65	€233.33
FK270V	Duct, RH, 0...10V, 0...95%, 24Vac/Vdc, Accur ±3%/5%, IP65	€233.33
FTK140VS NTC10k	Duct, RH, 0...10V, 0...95%, 24Vac/Vdc, Accur ±3%/5%, IP65	€234.90

Outdoor Humidity Sensor

Sensor for measuring relative humidity (model LCFA54) respectively for measurement relative humidity and temperature (model LCFTA54) in outdoor areas. Designed for locking on control and display systems.



Part Number	Description	Price
LC-FA54V	Outside, RH, 0...10V, 0...95%/-20...80°C, 24Vac/Vdc, Accur ±3%/5%/0.5/1.5°C, IP65	€172.53
LC-FTA54VV	Outside, Temp/RH, 0...10V, 5...95%, 24Vac/Vdc, Accur ±3%, IP65	€189.79

Clamp on, Condensation Detector

Condensation detector as protection device against dew permeation on cooling ceilings. For locking on to control and display systems, in order to interrupt the cooling water flow, for example. The device includes sensor and electronics, status-LED and relay contact.



Part Number	Description	Price
WK01 24V	Clamp on, RH, 0...10V, 5...95%, 24Vac/Vdc, Accur ±3%, IP65	€91.70
WK01 ext, 24V	Clamp on, RH, 0...10V, -35 ...70°C/85%RH, 24Vac/Vdc, Accur ±3%, IP65, remote sensor (2m)	€105.80
WK01 230V	Clamp on, RH, 0...10V, 5...95%, 230V, Accur ±3%, IP65	€130.40
WK01 ext, 230V	Clamp on, RH, 0...10V, -35 ...70°C/85%RH, 230V, Accur ±3%, IP65, remote sensor (2m)	€150.00

Clamp on Leakage Sensor

The leakage sensor is designed for monitoring occurring water pipe bursts and other water ingresses in rooms and protects buildings, fixtures and equipment. Suitable for locking-on to control and display systems. The device includes sensor and evaluation electronics with pilot LED and relay contact.



Part Number	Description	Price
LS02	Camp on, RH, On/Off switch, -35 ...70°C/ 85% RH, 24Vac/Vdc, Accur ±3%, IP65	€85.41

Duct, on/off Hygrostat

The hygrostat type FSR01 is an on-off controller to control the relative air humidity. It is used to control air humidifiers and dehumidifiers in offices and computer rooms. Other areas of use are storage of foodstuffs and luxury foods, cooling rooms for fruit and vegetables, greenhouses for gardening use, the textile industry, the paper and printing industry, the film industry and hospitals. The hygrostat is suitable for many applications where air humidity has to be controlled or monitored.



Part Number	Description	Price
FSK01	Duct, RH, On/Off switch, 35..95%, 230Vac, Accur ±3%, IP54	€172.53

Room, on/off Hygrostat

The hygrostat type FSR01 is an on-off controller to control the relative air humidity. It is used to control air humidifiers and dehumidifiers in offices and computer rooms. Other areas of use are storage of foodstuffs and luxury foods, cooling rooms for fruit and vegetables, greenhouses for gardening use, the textile industry, the paper and printing industry, the film industry and hospitals. The hygrostat is suitable for many applications where air humidity has to be controlled or monitored.



Part Number	Description	Price
FSR01	Room, RH, On/Off switch, 35..95%, 230Vac, Accur ±3%, IP54	€70.82

Mixed Gas (VOC)

Air-quality Sensors

The mixed gas sensor is designed for the detection of air-quality in living spaces. If the detected air-quality is bad, the output of the sensor will rise to 10V. Mixed gas sensors detect gases and vapours which can be oxidised (burnt): Body odours, tobacco smoke, exhalations emitted by materials (furnitures, carpets, paint, glue, etc.). In practice it has been proved, that these devices indicate air quality which is detectable by the senses. They have well proved themselves over the past years in a variety of applications. Measuring principle: A heated tin-dioxided semiconductor sensor varies its conductivity proportional to the number of molecules of reducing gases and thus amplifies the connected output voltage of the measuring element of 0V to 10V=. The following particles and gases are detected: Portions of cigarette smoke - hydrogen - carbon monoxide - ethanol - ammonia Contrary to CO₂-sensors which measure concentration of a type of gas in a selective mode, the mixed gas sensors are wider band, i.e. the sensor signal does neither show the type of gas nor the concentration in ppm. Due to the complex and ever changing composition of ambient air it is desirable that the air quality measurement of the sensor would be broadband.



Part Number	Description	Price
LK260 V	Duct,RH/CO ₂ , 0...10V,35..95%,0...2000ppm,230Vac,Accur ±3%,IP54,Mounting length 260mm	€275.86
LW04V	Room,RH/CO ₂ , 0...10V,35..95%,0...2000ppm,230Vac,Accur ±3%,IP54	€189.92

Room, Air-quality Sensors

The sensor is designed for the detection of carbon dioxide (CO₂), temperature and relative humidity (optionally) in living spaces. Wherever people are staying in rooms, the CO₂ concentration is an evident indicator for the room quality. For the CO₂ measurement the "Non Dispersive InfraRed (NDIR) Technology" with automatic self-calibration is used. For a direct locking-on to a DDC or a monitoring system, analog 0...10V outputs are available. Additionally, the devices WRF04 CO₂ ... can be supplied with a passive temperature sensor e.g. PT100, PT1000, NTC10k etc.



Part Number	Description	Price
WRF04 CO ₂ VVV	Room,Temp/CO ₂ ,0...10V,0...50°C,0...2000ppm,24Vac/Vdc,IP20	€338.68
WRF04 CO ₂ VV LCD	Room,Temp/CO ₂ ,0...10V,0...50°C,0...2000ppm,24Vac/Vdc,IP20,LCD display	€367.43

Motion Detectors

Ceiling, Motion/Temperature Sensor

The ceiling multi sensor model MDS is designed for occupancy detection in room or office spaces. In addition, the sensor detects the ambient brightness in rooms. The measured quantity can be used for a fixed light control by means of downstream dimming resistances. Optionally, the device is also available with an additional sensor for temperature detection. By means of the flat construction, the device is specially suitable for an inconspicuous installation in ceiling. Depending on the model, the multi sensor offers different output interfaces for coupling to a building system.



Part Number	Description	Price
EXT-TN-1066869	Room,Motion/Temp,On/Off switch/0...10V,0...50°C,24Vac/Vdc,Accur ±0.5°C,IP20,MDS Standard 1	€143.78

Room, Motion Detector

Motion sensor for presence detection in rooms and offices. Model WRF04I specially constructed for wall mounting, model WRF06I specially designed for flush wall mounting or model RDI specially constructed for installation in ceilings. Designed for locking on control and display systems.



Part Number	Description	Price
WRF04IRelay	Room,Motion,LON FTT10,24Vac/Vdc,IP20,Wall mounting	€91.80
RDI	Room,Motion,On/Off switch,24Vac/Vdc,IP20	€121.78

Light Sensors

Ceiling, Light Sensor

Light sensor for ceiling installation. With straight and diagonal prism for light control. Designed for connection to control and display systems. The sensors have an integrated colour filter (green filter) which is adapted to the sensitivity of human eyes.



Part Number	Description	Price
LDF V L1000 diagonal prism	Room,Light,0...10V,2...20kLux,24Vdc,Accur ±5%,IP65,45° Prism	€123.43
LDF V L1000 straight prism	Room,Light,0...10V,2...20kLux,24Vdc,Accur ±5%,IP65,90° Prism	€123.43
Li04 A	Room,Motion/Temp,LON FTT10/0...10V,0...50°C,24Vac/Vdc,Accur ±0.5°C,IP20	€123.43
Li04 V	Room,Light,4...20mA,2...100kLux,24Vdc,Accur ±5%,IP30	€123.43
Li65 A	Room,Light,0...10V,2...100kLux,24Vac/Vdc,Accur ±5%,IP30	€123.43
Li65 V	Room,Light,0...10V,2...100kLux,24Vdc,Accur ±5%,IP30	€123.43

Air Flow Sensors

Duct Flow Rate Measurement

DPT Flow is a device for monitoring and controlling the air flow and for measuring flow rate of centrifugal fans. The flow rate measurement is based on differential pressure values measured directly from the fan. DPT Flow can be used to display the flow value on-site and to send the output value to a control system.



Part Number	Description	Price
DPT Flow-D-1000	Duct, Flow, 4...20mA/0...10V,0...1000Pa, 24Vac/Vdc, Accur < ±1.5%, IP54	€266.76
DPT Flow-D-5000	Duct, Flow, 4...20mA/0...10V, 0...5000Pa, 24Vac/Vdc, Accur < ±1.5%, IP54	€266.76

Air Velocity Sensors

Duct Air Velocity Sensor

Duct-/Immersion sensor for measuring air velocity and temperature in gaseous media of heating, cooling and air-conditioning systems (e.g. fresh air / exhaust air ducts). Designed for locking on to control and display systems.



Part Number	Description	Price
AVT	Duct, Flow, 4...20mA/0...10V, 0,2...20m/s, 24Vac/Vdc, Accur ±5%, IP54	€142.71
AVT-D	Duct, Flow, 4...20mA/0...10V, 0,2...20m/s, 24Vac/Vdc, Accur ±5%, IP54, Display	€183.18
AVT-D-R	Duct, Flow, 4...20mA/0...10V, 0,2...20m/s, 24Vac/Vdc, Accur ±5%, IP54, Display, Relay	€202.35

Pressure Sensors & Switches

Duct Pressure Gauge

Differential pressure gauges for monitoring differential pressure of air and other non-flammable and non-aggressive gases. Possible applications: Monitoring of air filters and fans, monitoring of industrial air cycles and flows in air ducts.



Part Number	Description	Price
DPG60	Duct, Pressure, 0...60Pa, Accur < ±4%	€124.61
DPG100	Duct, Pressure, 0...100Pa, Accur < ±3%	€124.61
DPG250	Duct, Pressure, 0...250Pa, Accur < ±2%	€114.70
DPG500	Duct, Pressure, 0...500Pa, Accur < ±2%	€114.70
DPG1k	Duct, Pressure, 0...1kPa, Accur < ±2%	€114.70

Duct Differential Pressure Transmitter

Differential pressure transmitter with 8 selectable ranges and outputs 0..10 V or 4..20 mA. For monitoring the differential pressure of air and other non-flammable and non-aggressive gases. Possible applications: Monitoring for air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers. Screw mounting onto flat



Part Number	Description	Price
DPA250 MultiRange	Duct, Pressure, 4...20mA/0...10V, 0...150Pa, 24Vac/Vdc, Accur ± 1Pa, IP65	€128.50
DPA2500 MultiRange	Duct, Pressure, 4...20mA/0...10V, 0...2500Pa, 24Vac/Vdc, Accur ±5 Pa, IP65	€128.50
DPA7000 MultiRange	Duct, Pressure, 4...20mA/0...10V, 0...7000Pa, 24Vac/Vdc, Accur ± 10Pa, IP65	€128.50
DPA250 RS485 Modbus MultiRange	Duct, Pressure, Modbus, 0...150Pa, 24Vac/Vdc, Accur ± 1Pa, IP65	€132.70
DPA2500 RS485 Modbus MultiRange	Duct, Pressure, Modbus, 0...2500Pa, 24Vac/Vdc, Accur ±5 Pa, IP65	€132.70
DPA7000 RS485 Modbus MultiRange	Duct, Pressure, Modbus, 0...7000Pa, 24Vac/Vdc, Accur ± 10Pa, IP65	€132.70
DPA250 LCD MultiRange	Duct, Pressure, 4...20mA/0...10V, 0...150Pa, 24Vac/Vdc, Accur ± 1Pa, IP65, LCD display	€171.20
DPA2500 LCD MultiRange	Duct, Pressure, 4...20mA/0...10V, 0...2500Pa, 24Vac/Vdc, Accur ±5 Pa, IP65, LCD display	€171.20
DPA7000 LCD MultiRange	Duct, Pressure, 4...20mA/0...10V, 0...7000Pa, 24Vac/Vdc, Accur ± 10Pa, IP65, LCD display	€171.20
DPA250 LCD RS485 Modbus MultiRange	Duct, Pressure, Modbus, 0...150Pa, 24Vac/Vdc, Accur ± 1Pa, IP65, LCD display	€173.80
DPA2500 LCD RS485 Modbus MultiRange	Duct, Pressure, Modbus, 0...2500Pa, 24Vac/Vdc, Accur ±5 Pa, IP65, LCD display	€173.80
DPA7000 LCD RS485 Modbus MultiRange	Duct, Pressure, Modbus, 0...7000Pa, 24Vac/Vdc, Accur ± 10Pa, IP65, LCD display	€173.80

Duct Pressure Sensor

For pressure detection in liquid mediums for air conditioning, heating and water application. Suitable for plants with refrigerant.



Part Number	Description	Price
DLM-1..0 V G1/4"	Pressure, 0...10V, -1...0 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM1 V G1/4"	Pressure, 0...10V, 0...1 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM1,6 V G1/4"	Pressure, 0...10V, 0...1.6 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM2 V G1/4"	Pressure, 0...10V, 0...2 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM2,5 V G1/4"	Pressure, 0...10V, 0...2.5 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM4 V G1/4"	Pressure, 0...10V, 0...4 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM6 V G1/4"	Pressure, 0...10V, 0...6 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM10 V G1/4"	Pressure, 0...10V, 0...10 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM16 V G1/4"	Pressure, 0...10V, 0...16 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM25 V G1/4"	Pressure, 0...10V, 0...25 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM40 V G1/4"	Pressure, 0...10V, 0...40 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM60 V G1/4"	Pressure, 0...10V, 0...60 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30
DLM100 V G1/4"	Pressure, 0...10V, 0...100 bar, 24Vac/Vdc, Accur ± 0.7%, IP65	€105.30

Duct Pressure Gauge & Switch

The filter alerts are a solution for systems requiring visual indication of pressure on site and a switching point signal. The filter alerts are ideal for general-purpose work in air-conditioning and ventilation, especially in monitoring of air



Part Number	Description	Price
DPG200/PS200	Duct, Pressure, On/Off switch, 0..200 Pa, Accur ± 2%, IP54	€151.00
DPG600/PS600	Duct, Pressure, On/Off switch, 0..600 Pa, Accur ± 2%, IP54	€151.00
DPG1,5k/PS1500	Duct, Pressure, On/Off switch, 0..1500 Pa, Accur ± 2%, IP54	€151.00

Duct Pressure Switch

Electronic Differential pressure switch for monitoring the differential pressure of air and other nonflammable and nonaggressive gases. Possible applications: Monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers, antifreeze with heat exchangers.



Part Number	Description	Price
DPI2500 LCD	Duct, Pressure, 0...10V, 0..2500 Pa, 24Vac/Vdc, Accur ± 2%, IP54, LCD Display	€228.10
DPI2500-2R LCD	Duct, Pressure, 0...10V, 0..2500 Pa, 24Vac/Vdc, Accur ± 2%, IP54, LCD Display, 2 relay output	€238.80

Duct Pressure Switch

Differential pressure switch for monitoring the differential pressure of air and other non-flammable and non-aggressive gases. Possible applications: Monitoring of air filters, fans, industrial cooling air cycles as well as overheating protection, control of air and fire dampers, anti-freeze with heat exchangers.



Part Number	Description	Price
PS200+	Duct, Pressure, On/Off switch, 20..200 Pa, Accur ±5 Pa, IP54	€25.60
PS300+	Duct, Pressure, On/Off switch, 30..300 Pa, Accur ±5 Pa, IP54	€25.60
PS500+	Duct, Pressure, On/Off switch, 30..500 Pa, Accur ±5 Pa, IP54	€25.60
PS1000+	Duct, Pressure, On/Off switch, 100..1000 Pa, Accur ± 10Pa, IP54	€25.60
PS2500+	Duct, Pressure, On/Off switch, 250..2500 Pa, Accur ± 10Pa, IP54	€25.60

Variable Speed Drives

Power Thyristors

Thyristors are more and more used where increased resistive and inductive loads have to be controlled. By means of the modular and compact construction as well as the control by a continuous action control signal, these Power Thyristors are becoming a perfect actuator for industrial power control. The power unit of the Thyristor is made of two antiparallel connected Thyristors, the insulated heat sink and the control electronics.



Part Number	Description	Price
TS1 1-phase 1-ph 2A 0,8 kW	Thyristors, 1 phase, 2A,0.8kW, 230Vac, IP40	€156.80
TS1 1-phase 1-ph 4A 0,92 kW	Thyristors, 1 phase, 4A,0.92kW, 230Vac, IP40	€182.90
TS1 1-phase 1-ph 6A 1,38 kW	Thyristors, 1 phase, 6A, 1.38kW,230Vac, IP40	€212.70
TS1 1-phase 1-ph 8A 1,84 kW	Thyristors, 1 phase, 8A, 1.84kW, 230Vac, IP40	€235.10
TS1 1-phase 1-ph 10A 2,30 kW	Thyristors, 1 phase, 10A, 2.30kW, 230Vac, IP40	€253.80
TS3 1-phase 1-ph 15A 3,45 kW	Thyristors, 1 phase, 15A, 3.45kW, 230Vac, IP40	€302.50
TS3 1-phase 1-ph 25A 5,75 kW	Thyristors, 1 phase, 25A, 5.75kW, 230Vac, IP40	€430.00
TS3 1-phase 1-ph 35A 8,05 kW	Thyristors, 1 phase, 35A, 8.05kW, 230Vac, IP40	€455.50
TS3 1-phase 1-ph 50A 11,50 kW	Thyristors, 1 phase, 50A, 11.5kW, 230Vac, IP40	€528.30
TS2 1-phase 1-ph 75A 17,25 kW	Thyristors, 1 phase, 75A, 17.25kW, 230Vac, IP40	€1,238.80
TS2 1-phase 1-ph 90A 20,70 kW	Thyristors, 1 phase, 90A, 20.70kW, 230Vac, IP40	€1,501.20
TS2 1-phase 1-ph 120A 27,60 kW	Thyristors, 1 phase, 120A, 27.6kW, 230Vac, IP40	€1,810.90
TS1 3-phase 3-ph 2A 1,39 kW	Thyristors, 3 phase, 2A, 1.39kW, 230Vac, IP40	€179.20
TS1 3-phase 3-ph 4A 2,77 kW	Thyristors, 3 phase, 4A, 2.77kW, 230Vac, IP40	€197.80
TS1 3-phase 3-ph 6A 4,15 kW	Thyristors, 3 phase, 6A, 4.15kW, 230Vac, IP40	€220.20
TS1 3-phase 3-ph 8A 5,54 kW	Thyristors, 3 phase, 8A, 5.54kW, 230Vac, IP40	€242.60
TS1 3-phase 3-ph 10A 6,93 kW	Thyristors, 3 phase, 10A, 6.93kW, 230Vac, IP40	€268.70
TS3 3-phase 3-ph 15A 10,38 kW	Thyristors, 3 phase, 15A, 10.38kW, 230Vac, IP40	€590.30
TS3 3-phase 3-ph 25A 17,30 kW	Thyristors, 3 phase, 25A, 17.3kW, 230Vac, IP40	€674.10
TS3 3-phase 3-ph 50A 34,60 kW	Thyristors, 3 phase, 35A, 34.6kW, 230Vac, IP40	€878.10
TS3 3-phase 3-ph 35A 24,22 kW	Thyristors, 3 phase, 50A, 24.22kW, 230Vac, IP40	€787.00
TS2 3-phase 3-ph 75A 51,91 kW	Thyristors, 3 phase, 75A, 51.91kW, 230Vac, IP40	€1,439.20
TS2 3-phase 3-ph 90A 62,28 kW	Thyristors, 3 phase, 90A, 62.28kW, 230Vac, IP40	€1,694.30
TS2 3-phase 3-ph 120A 83,04 kW	Thyristors, 3 phase, 120A, 83.04kW, 230Vac, IP40	€1,938.40

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