

WHEN RELIABILITY MATTERS

MAKE SURE IT IS SONTAY

 CONTROLLERS	POWER MONITORING	
AIR QUALITY & GAS DETECTION 	WATER LEAK DETECTION 	
RELATIVE HUMIDITY 	SMART SENSORS 	
AIR FLOW 	PRESSURE 	

CONTROLLER



BENEFITS

SAFETY

Monitor temperature & pressure continuously · Prevent overheating, leaks, abnormal conditions ·



EFFICIENCY

· Measure flow and heat precisely · Improve load balance and cut fuel use

PRECISION

Stable supply of temperature & pressure · Ensure comfort and reliable operation ·



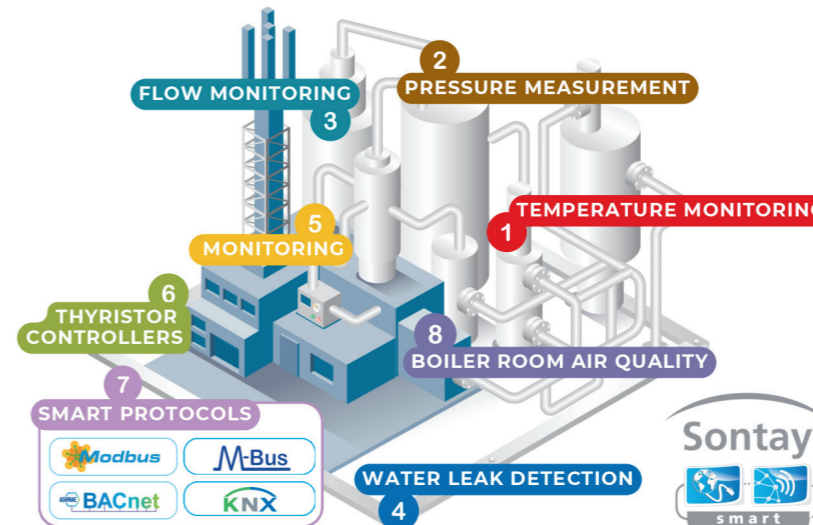
INTEGRATION

· Connect easily with BMS platforms · Supports BACnet, Modbus, KNX & LoRaWAN

Sontay Sensors for Boiler Room Applications

Safeguarding performance, efficiency, and uptime through precise monitoring.









SCAN HERE



Sensing for heat, safety, and system performance.

Boiler rooms operate at the core of a building's thermal system, a stability breach in temperature or pressure can rapidly lead to equipment stress, corrosion or failure. With temperature, pressure, flow and leak detection sensors, Sontay delivers dependably precise control and protection.

Our smart and traditional sensor range helps you catch early warning signs, reduce energy waste and extend equipment life across heating and hot-water systems. Designed for full BMS/IoT integration, Sontay makes your boiler room efficient, compliant and robust.

	Product Code	Applications	
1	TT / TT-525	Temperature Monitoring	
2	PA / PL	Pressure Measurement	
3	FS-W	Flow Monitoring	
4	WD / WD-AMX	Water Leak Detection	
5	PM-CT / PM-EM	Monitoring	
6	RE	Thyristor Controllers	
7	SC	Smart Communication Protocols	
8	GS-CO-P	Boiler Room Air Quality	



TEMPERATURE & PRESSURE

Accurate sensing ensures safety and system stability. Detect deviations early to prevent overheating.



FLOW & ENERGY MONITORING

Monitor flow and heat energy to optimise efficiency and cut costs.



WATER LEAK DETECTION

Detect leaks early to protect equipment and uptime.

FC-SDY Manual Fan Speed Controller for Small Motors



SPECIFICATION

Control type	Manual via potentiometer
Current Ratings	0.1 to 1.5A
Flush mount dimensions	82 x 87 x 23.5mm
Flush protection	IP44
Minimum speed	Adjustable via trim pot
Mounting Style	Wall and flush mount
Nominal Supply	230Vac, 1 phase, 50/60Hz
On/Off Switch	Inbuilt with pot.
Pot.action	Clockwise = min. to max. speed
Surface protection	IP54
Wall mount dimensions	82 x 87 x 63.5mm
Weight	360g max.

Part code	Description
FC-SDY-1.5	1.5A, 1-Phase Controller
FC-SDY-3	3A, 1-Phase Controller

Manual control for small, single-phase motors up to 3 amps. The minimum speed can be adjusted via an internal trimmer. The unregulated output is active when the motor is enabled. The enclosure allows inset mounting (IP44) or surface mounting (IP54). Microprocessor controlled to guarantee accurate motor control and to minimise motor noise. Phase angle control (Triac technology) is used to vary the motor voltage and to regulate the motor speed. This variable speed controller is often used to ceiling fans, bathroom exhaust fans, extraction fans etc.



FC-ITR Manual Speed Controllers



SPECIFICATION

Control type	Separate to potentiometer, mounted on side
Current Ratings	0.5 to 10.0A
Fuse ratings	F16AH 250Vac (6.3x32mm)
Minimum speed	Adjustable via trim pot
Mounting Style	Wall mount
Nominal Supply	110 to 240Vac, 1 phase, 50/60Hz
On/Off Switch	Full speed for 8 to 10 secs
Pot.action	Clockwise = min. to max. speed
Protection	IP54
Weight	740g max.

Part code	Description
FC-ITR-3D	3A, 1-Phase Controller
FC-ITR-10D	10A, 1-phase Controller

The FC-ITR range of manual speed controllers provide an economic means of speed regulation for voltage controllable single-phase AC motors. Centrifugal fans, axial fans, propeller fans, and centrifugal pumps are prime candidates for electronic speed control.



FC-EVS Fan Speed Controllers



SPECIFICATION

Control type	Automatic from remote signal
Current Ratings	0.5 to 10.0A
Fuse	20mm 'FF' type
Fuse ratings	FF 3.15A
Minimum speed	According to signal value
Mounting Style	Wall mount
Nominal Supply	230Vac, 1 phase, 50/60Hz
On/Off Switch	Mounted on side
Pot.action	Two wire 4-20mA, 0-10Vdc or Modbus
Protection	IP54
Weight	810g max.

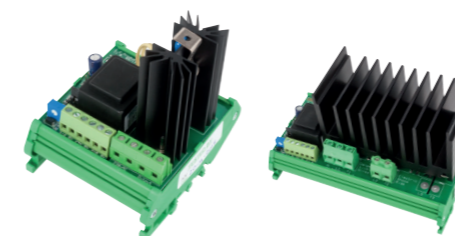
Part code	Description
FC-EVS-1.5	1.5A, 1-Phase Controller
FC-EVS-3	6A, 1-Phase Controller
FC-EVS-6	10A, 1-phase Controller
FC-EVS-10	3A, 1-Phase Controller

The FC-EVS series of electronic speed controllers provide an economic means of regulation for voltage controllable single-phase AC motors. Centrifugal fans, axial fans, propeller fans, and centrifugal pumps are prime candidates for electronic speed control. Fan speed is controlled via a remote invertible 0-10Vdc / 10-0Vdc or 0-20mA / 20-0mA signal, suitable for direct connection to BEMS or transmitters. It is equipped with Modbus RTU communication and provides a wide range of functionalities: remote control options, adjustable off level, min. and max. output voltage settings, and time-limited motor operation initiated by a logic or switch signal.



Data sheets online: www.sontay.com

RE-1P Single Phase Controllers



SPECIFICATION

Alarm Output	(as power supply) 0V when over temp alarm is active
Ambient Temperature Range	0-45°C without de-rating
Input Signal	Selectable; 0-5V, 0-10V, 2-10V or 4-20mA
LED indication	ON when output is on
Supply (load)	220-255Vac 50/60Hz
Weight	200g

The 2kW single phase DIN Rail mounting controller is suitable for providing control of electric heating loads from an analogue signal. Applications include electric heating coils, heating cables and electric furnaces. The units utilise solid-state switching with "zero crossing technology" to provide accurate switching control. All items are provided with an alarm output for over temperature protection and LED Indication of Output ON, and are designed to mount on DIN rail.

FEATURES

- Selectable control input
- Over temperature protection with auto reset
- Line powered
- LED Indication
- Efficient electronic switching
- No additional heat sinks or RFI filters required



Controllers

RE-3P 3-phase Controllers



SPECIFICATION

Input signal	Selectable; 0-5V, 0-10V, 2-10V or 4-20mA
Supply (load)	220-255Vac 50/60Hz
Supply (control)	DIN-Rail: 24Vac/dc Panel Mount: 230Vac
LED indication	ON when output is on
Alarm output	(as power supply), 0V when over temp alarm is active*
Ambient temperature	0-45°C without de-rating
Dimensions (W, H, D)	RE-3P-12/18 - 170 x 110 x 102mm RE-3P-27/36 - 257 x 102 x 142mm RE-3P-57/86 - 257 x 200 x 158mm RE-3P-105 - 257 x 265 x 159mm
Weight	RE-3P-12 - 621g RE-3P-18 - 882g RE-3P-27/36 - 3.8kg RE-3P-57 - 7.2kg RE-3P-105 - 10kg

The RE-3P range are suitable for providing control of electric heating loads from an analogue signal. Applications include electric heating coils, heating cables and electric furnaces. The units utilise solid-state switching with "zero crossing technology" to provide accurate switching control.

All controllers are provided with an alarm output for over temperature protection and LED Indication of Output ON.

The 12 & 18kW versions are for Din-rail mounting and 27, 36, 57, 86 & 105kW are designed to mount on the control panel back plate.

FEATURES

- Selectable control input
- Over temperature protection with auto reset
- No additional heat sinks or RFI filters required
- Efficient electronic switching
- Small foot print



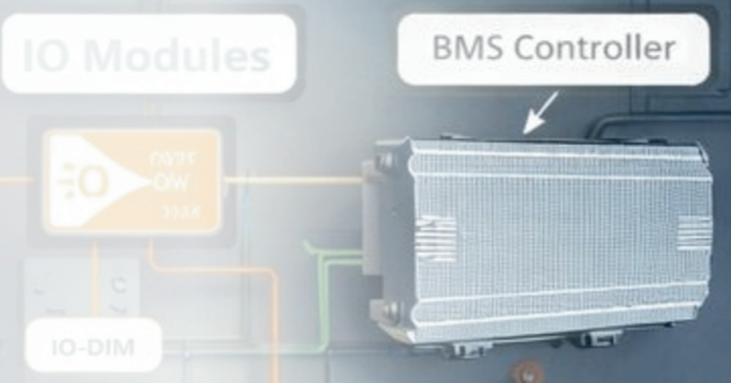
Part code	Description
RE-3P-12	Din-rail 12kW Controller
RE-3P-18	Din-rail 18kW Controller
RE-3P-27	Panel mount 27kW Controller
RE-3P-36	Panel mount 36kW Controller
RE-3P-57	Panel mount 57kW Controller
RE-3P-86	Panel mount 86kW Controller
RE-3P-105	Panel mount 105kW Controller

* No Alarm Output available on 105kW.

Data sheets online: www.sontay.com

WHEN CONTROL NEEDS FLEXIBILITY

MAKE SURE IT IS SONTAY



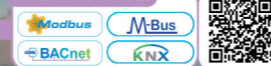
IO MODULE



AIR & WATER FLOW

SMART SENSORS

SMART PROTOCOLS



IO MODULES

BENEFITS

FLEXIBILITY

- Expand I/O without changing controllers
- Support analogue, digital, and relay signals



RELIABILITY

- Proven designs for HVAC environments
- Stable signal conversion and control

EFFICIENCY

- Reduce hardware and wiring complexity
- Cost-effective system expansion



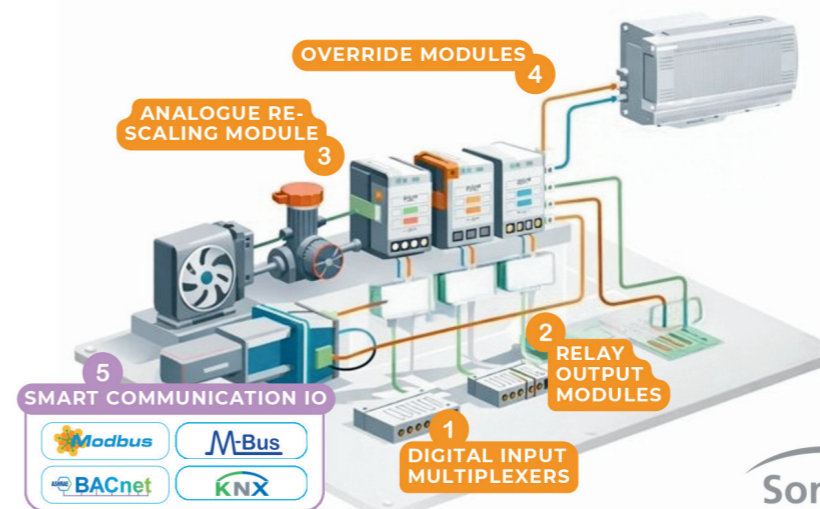
INTEGRATION

- Compatible with BACnet & Modbus systems
- Seamless connection to BMS controllers

Sontay IO Modules for Control & Expansion

Smart signal handling for flexible system design.

SCAN HERE



	Product Code	Applications	
1	IO-DIM	Digital Input Multiplexers	
2	IO-RM	Relay Output Modules	
3	IO-A-RM	Analogue Re-Scaling Module	
4	IO-ABM	Override Modules	
5	SC-IO	Smart Communication IO	

Smart signal control for modern BMS architectures. Input / Output modules play a critical role in connecting field devices to Building Management Systems. They enable the conversion, scaling, and switching of signals, allowing controllers to interact reliably with sensors, actuators, and plant equipment.

Sontay's IO Modules provide flexible, cost-effective expansion of BMS inputs and outputs, supporting analogue and digital signals, relay switching, and control functions across a wide range of HVAC and building services applications.

IO Modules are commonly used to expand BMS input and output capacity in plant rooms and AHUs, allowing additional sensors and actuators to be integrated without replacing the main controller.



INPUT EXPANSION

- Increase digital inputs on BMS controllers
- Reduce controller count & cost



OUTPUT SWITCHING

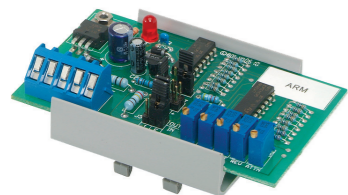
- Control fans, pumps, heaters, and valves
- Support ON/OFF and staged control



SIGNAL CONVERSION

- Convert and rescale signals
- Match field devices to controller requirements

IO-A-RM Analogue Rescaling Module



SPECIFICATION

Ambient relative humidity	10 to 95% RH non-condensing
Ambient Temperature Range	-10 to +50°
Current input signal	0 to 44mA max.
Current Output	1 to 44mA max.
Power Supply	24Vac/dc ±10%, 200mA max.
Voltage input signal	0 to 35Vdc max.
Voltage output signal	0.25 to 20Vdc max.
Weight	60g

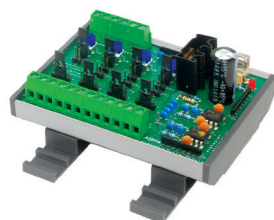
Part code	Description
IO-A-RM	Analogue Re-Scaling Module

The IO-A-RM can accept either a voltage or current input, which can be converted and /or rescaled to a voltage or current output. The IO-A-RM can also be used to reverse an input signal.

FEATURES

- Field selectable ranges
- Voltage to current, current to voltage conversion
- Reverse or normal output
- DIN Rail mounting
- Accurate signal rescaling
- Allows conversion of non-compatible signals
- LED indication

IO-ABM4 Analogue Override Module



SPECIFICATION

Ambient Range	-10 to +50°C
Fuse	8A max.
Fused Output	24Vac @ 8A
Input Signal	0-10Vdc
Max. supply current	AC supply 260mA DC supply 115mA
Max.output current	20mA per channel in buffered mode
Output signals	0-10Vdc direct or buffered
Power Supply	24Vac/dc ±15%
Weight	110g

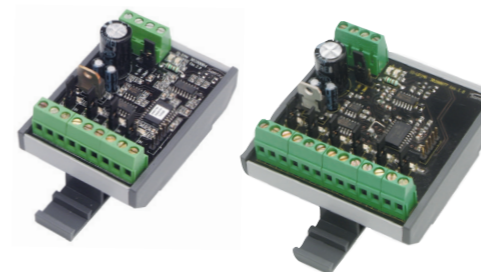
Part code	Description
IO-ABM4	4-channel Module

Intended for applications which require independent manual override of analogue output channels from a BMS controller, as a fail-safe in the event of controller failure. This enables actuators and other plants to be manually overridden from the panel where local access may be difficult. The module is also useful for commissioning or temporary control of a plant prior to controller installation.

FEATURES

- 4 x 0-10Vdc channels & 24Vac/dc powered
- Hand/off/auto link selectable
- DIN Rail mounting
- Enables actuators or other equipment to be manually overridden
- Used as a fail-safe in event of controller failure
- Up to four outputs to be controlled from one input

IO-DIM Digital Input Multiplexers



SPECIFICATION

Ambient relative humidity	0 to 80% RH non-condensing
Ambient Temperature Range	-10 to +50°C
Current	35mA max. voltage output mode, 55mA max. current output mode
Inputs	VFC, 24Vac or 24Vdc
LED indication	Supply OK, supply voltage low, supply voltage high, current output (4-20mA output only)
Output range	0-10Vdc into 2kΩ impedance
Power Supply	4-20mA into 500Ω max.
Weight	80g

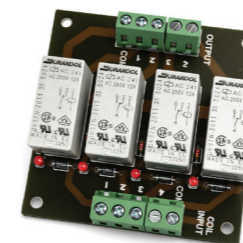
These modules are to expand a BMS controllers input capacity by multiplexing four or six digital signals, or 24Vac/dc inputs into a single analogue controller unit. Each combination of input states corresponds to an analogue value from the module which can be decoded into four or six digital status bits.

Part code	Description
IO-DIM-4	4 x VFC or 24Vac/dc inputs, selectable output
IO-DIM-6	6 x VFC or 24Vac/dc inputs,selectable output

FEATURES

- Input status indication & simulation
- Calibrated output
- DIN Rail mounting
- Expands controller input capacity
- Fault finding LED indication
- Input status LED indication

IO-FRM4 Fan Speed Relay Module



SPECIFICATION

Inputs	24VAC
Outputs	Common and 4 volt-free contact switched outputs
Contact Rating	10A @250Vac resistive (Inductive current depends on load- typically 5A inductive)
Terminals	Rising clamp for 0.5-2.5mm cable
Dimensions	72x72mm, Fits 72mm DIN rail carrier, Mounting hole 62mm apart
Weight	82gms
Ambient Temperature	0-50°C

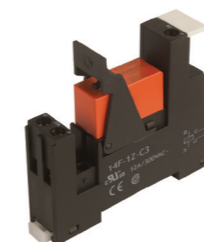
The IO-FRM4 is an interlocked, four relay module. Intended for use as a fan speed switch, the unit can be used to change the fan speeds on fan motors with multitapped windings and also transformer speed controlled motors. The 'Change over' design of the relay contact configuration and common switching point ensure that the only set of contacts is active at any one time, thus preventing short circuits. The module can be panel mounted or DIN rail mounted.

Part code	Description
IO-FRM4	Fan Speed Relay Module
IO-FRM4-T	Fan Speed Relay Module with Transformer

FEATURES

- Interlocked relays allow only one output at a time
- High and low Voltage relay coil options
- Mounting: DIN rail carrier or panel mount
- Switches up to 10 Amps
- LED indication

IO-RM1 Single Relay Modules



SPECIFICATION

Ambient Range	-10 to 50°C
Input Signal	10Vdc
Output Contacts	10A resistive
Relay Clip	Auto eject type supplied
Weight	60g

FEATURES

- Various coil types available
- Rising cage terminals
- DIN Rail mounting

Part code	Description
IO-RM1-12DC	Single Relay, 12Vdc Module
IO-RM1-24DC	Single Relay Module 24Vdc
IO-RM1-24AC	Single Relay Module 24Vac
IO-RM1-240AC	Single Relay Module 240Vac

A range of relays for use with BMS controllers for switching plant and isolation of input signals. They are supplied complete with DIN-rail mounting base and retaining clip.

Data sheets online: www.sontay.com

Data sheets online: www.sontay.com

IO-RM Relay Modules

This range of relay modules are intended for use with BMS controllers to convert an analogue control output to a raise/lower, high/low or binary relay output pair. Applications include the control of raise/lower valve and damper actuators, and pump changeover.

LEDs indicate correct operation and Hand/ Off/Auto jumpers ease commissioning. Low current draw from 0-10Vdc controller output means that the IO-RM-2 can work successfully with most BEMS controllers.

FEATURES

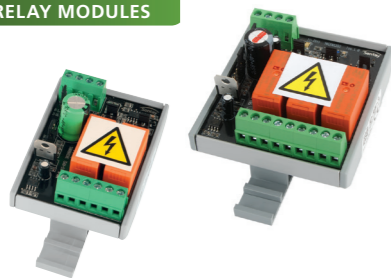
- Link selectable modes raise/lower, hi/low or binary
- On/Off/Auto links for ease of commissioning
- DIN Rail mounting
- Fault finding LED indication
- Relay status LED indication



SPECIFICATION

Ambient relative humidity	0 to 80% RH non-condensing
Ambient Temperature Range	-10 to 40°C
Input impedance	Approx. 11kΩ
Input Signal	0 to 10Vdc<1mA
Modes (selectable)	Binary, staged or sequenced
Output Contacts	8A @230Vac (resistive load)
Power Consumption	100mA max.
Power Supply	24Vac/dc ±15% @50Hz
Weight	200g

2 & 3 STAGE RELAY MODULES

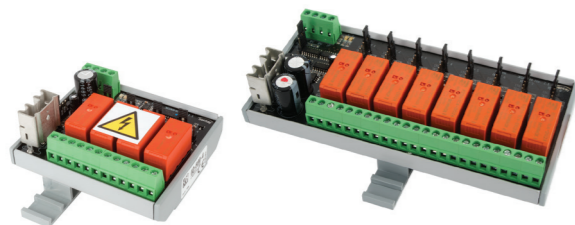


Part code	Description
IO-RM-2	2-stage Relay Module
IO-RM-3	3-stage Relay Module

SPECIFICATION

Ambient relative humidity	0 to 80% RH non-condensing
Ambient Temperature Range	-10 to +40°C
Input impedance	Approx. 11kΩ
Input Signal	0 to 10Vdc<1mA
Modes (selectable)	Raise/lower, hi/low or binary
Output Contacts	8A @ 230Vac (resistive load)
Power Consumption	100mA max.
Power Supply	24Vac/dc ±15% @ 50Hz
Weight	100g

4 & 8 STAGE RELAY MODULES



Part code	Description
IO-RM-4	4-stage Relay Module
IO-RM-8	8-stage Relay Module

SPECIFICATION

Ambient relative humidity	0 to 80% RH non-condensing
Ambient Temperature Range	-10 to +40°C
Input impedance	Approx. 11kΩ
Input Signal	0 to 10Vdc<1mA
Modes (selectable)	Raise/lower, hi/low or binary
Output Contacts	8A @ 230Vac (resistive load)
Power Consumption	100mA max.
Power Supply	24Vac/dc ±15% @ 50Hz
Weight	100g

Relay Module



Part code	Description
IO-RM-A	Adjustable Switching Point Relay Module

Data sheets online: www.sontay.acom

WHEN COMFORT INSPIRES LEARNING

MAKE SURE IT IS SONTAY



RELATIVE HUMIDITY



POWER MONITORING



AIR QUALITY & GAS DETECTION



WATER LEAK DETECTION



TEMPERATURE



SMART SENSORS



AIR FLOW



LIGHT LEVEL & OCCUPANCY

LIGHTING CONTROL



BENEFITS

HEALTH & WELLBEING

- Balanced lighting improves visual comfort
- Reduces eye strain and fatigue



EFFICIENCY

- Daylight harvesting lowers energy use
- Auto switch-off prevents waste

SMART AUTOMATION

- Occupancy-based responsive control
- Integrates with HVAC and BMS



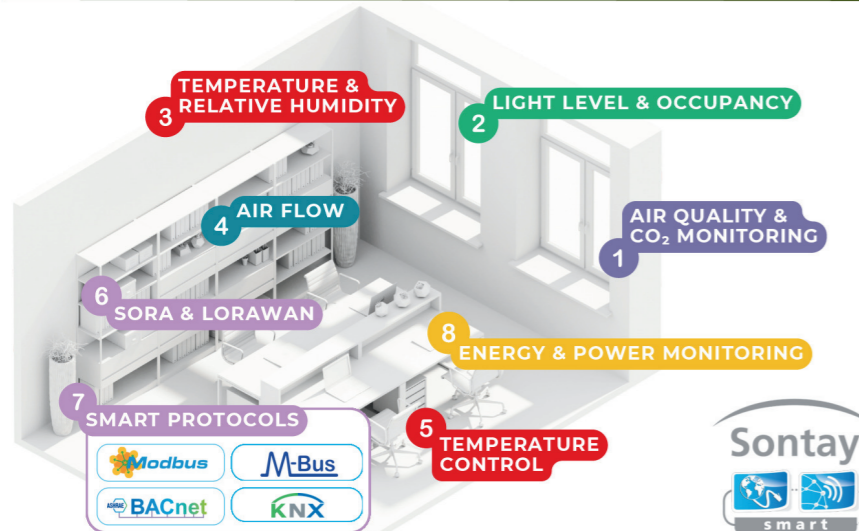
INTEGRATION

- BACnet, Modbus, KNX & LoRaWAN
- Suitable for offices, schools & healthcare

Sontay Sensors for Educational Environments

Smart sensing for comfort, focus, and sustainability.

SCAN HERE



Sensing for healthy learning environments and sustainable performance.

Educational buildings face the dual challenge of maintaining comfort while minimising energy use. Classrooms, lecture halls, and laboratories require reliable environmental control to create healthy spaces for learning and teaching. From early morning lessons to full lecture schedules, air quality and comfort directly influence focus and performance.

Sontay's sensors enable precise control of air quality, temperature, humidity, and occupancy, helping schools and universities meet sustainability targets, reduce energy costs, and enhance student well-being. Designed for modern BMS integration, our sensing solutions ensure consistent performance and support smart campus management for the future of education.

	Product Code	Applications	
1	GS-CO2 / AQ	Air Quality & CO ₂ Monitoring	
2	LL / OC	Light Level & Occupancy	
3	RH	Humidity Monitoring	
4	AV	Air Flow	
5	TT	Temperature Control	
6	RF-LW	SORA & LoRaWAN	
7	SC	Smart Communication Protocols	
8	PM-CT / PM-EM	Energy & Power Monitoring	



AIR QUALITY & VENTILATION

Fresh air supports focus. Ventilation adjusts to occupancy and CO₂.



TEMPERATURE & HUMIDITY CONTROL

Stable temperatures enhance comfort and save energy.



LIGHT & OCCUPANCY

Smart sensing cuts waste by matching use and lighting.

LL Light Level Sensor

The LL-P-V is a light level transmitter designed for use in the active control of artificial lighting, both to optimise light levels and to achieve maximum energy efficiency.

Using a photo-diode cell to detect light levels the LL-P-V provides a 10 to 2000 and 10 to 10,000 lux range, with a linear 0-10Vdc output signal.

FEATURES

- 0-10Vdc output
- Flush mounted
- 24Vac/dc powered
- Energy saving by dimming light ballast



LL-P-V



Part code	Description
LL-P-V	Wall Mounted External, Light Level Sensor

SPECIFICATION

Accuracy	±5% across range
Environmental Housing	-30 to +60°C, 0 to 90% RH non-condensing
Housing Material	PC (Halogen Free Flame Retardant, UV Stabilized)
Output	0-10Vdc
Protection	IP65
Ranges (selectable)	10 to 2000 Lux, 10 to 10,000 Lux
Sensor Reference	Photo-diode
Supply	24Vac/dc
Weight	140g

LL-C-V



Part code	Description
LL-C-V	Ceiling Mounted Internal, Light Level Sensor

SPECIFICATION

Accuracy	±5% across range
Ambient relative humidity	0 to 90% RH non-condensing
Ambient Temperature Range	-10 to +40°C
Housing Material	Flame retardant ABS, Polypropylene
Output	0-10Vdc
Protection	IP30
Range	10 to 2000 Lux
Sensor Reference	Photo-diode
Supply	24Vac/dc
Weight	140g

LL Light Level & Occupancy Sensor



The LL-C-M is designed to give savings over uncontrolled lighting whilst retaining an ease of installation and configuration. A Passive Infra-Red detector monitors occupancy through moving body heat and a photo-sensitive device monitors light level. This will ensure that lighting is only switched on when the area covered is occupied and the light level is too low for normal working use. In this way lighting remains off until required.

Part code	Description
LL-C-M	230Vac. Flush ceiling mounted light level and occupancy controller

SPECIFICATION

Occupancy Sensor	Infra-Red Detector
Passive	
Field of view	360°
Coverage	6 metres max.
Light range	10 - 2000 Lux
Off Delay Timer	10 seconds to 30 minutes
Supply Voltage	230Vac @ 50Hz
Electrical Connections	Live, Neutral & Switched Live
Ambient Temperature	-10 to +40°C
Ambient Humidity	90%RH non-condensing
Material Flame retardant	ABS, polypropylene
Protection	IP30
Weight	140g

FEATURES

- Combined light level & occupancy detection
- Flush mounted
- 6 meter coverage
- Energy saving
- Easy adjustment of light level and delay time

Data sheets online: www.sontay.com

Energy Saving through Lighting Control

OC Occupancy Detector

Occupancy Detection in BMS

Occupancy detection in Building Management Systems (BMS) is crucial for optimizing energy consumption and ensuring efficient resource allocation. Here are some key points regarding occupancy detection in BMS:

- **Privacy-First Sensors:** These sensors detect presence without capturing identifiable imagery or biometric identifiers, using thermal, radar, or other non-imaging techniques. They perform local anonymization, reducing legal exposure and resistance from occupants.
- **Energy Efficiency:** By controlling lighting, HVAC systems, and other energy-consuming devices based on occupancy, occupancy sensors can reduce energy consumption by up to 30%. This can lead to significant financial savings and a more cost-effective operation.

- **Cost Savings:** Occupancy sensors typically offer a return on investment (ROI) within one to three years, depending on the size of the installation and energy costs. They help in reducing energy usage, which translates to financial savings.
- **Improved Comfort:** Occupancy sensors ensure that spaces are lit and climate-controlled only when occupied, enhancing the comfort of building users.
- **Smart Sensors:** Smart sensors in BMS provide enhanced accuracy and intelligence, offering real-time data monitoring or predictive analytics. They can detect anomalies and deviations from normal operating conditions, enabling proactive maintenance strategies.

SPECIFICATION

Ambient relative humidity	0 to 90% RH non-condensing
Ambient Temperature Range	-10 to +40°C
Coverage	6 meters max.
Field Of View	90°
Off Delay Timer	10 seconds to 30 minutes
Protection	IP30
Sensor Type	Passive infra-red detector
Supply	24Vac/dc
Switching Capacity	6(2)A @24V
Weight	140g

Part code	Description
OC-C-LVN	Ceiling Mounted, PIR Occupancy Detector
OC-C-LVN-SR	Ceiling Mounted, PIR Occupancy Detector, without LED, silent relay

SPECIFICATION

Ambient relative humidity	0 to 90% RH non-condensing
Ambient Temperature Range	-10 to 40°C
Field Of View	360°
Protection	IP30
Supply	24Vac/dc
Switching Capacity	6(2)A @24V
Weight	70g

Part code	Description
OC-W-LV	Wall Mounted, PIR Occupancy Detector

SPECIFICATION

Ambient Range	0 to 90% RH non condensating
Ambient Temperature:	-10 to 40°C
Coverage	1-8 meters max.
Field Of View	360°
Off Delay Timer	8 seconds to 12 minutes
Protection	IP30
Sensor Type	Microwave
Supply	230-5.8 GHz CW
Switching Capacity	1200A @240V, Radar / ISM board
Weight	140g

Part code	Description
OC-C-M	Ceiling Mounted, Microwave Occupancy Detector

SPACE SENSORS



The OC-C-LVN is a Passive Infra-Red detector for monitoring occupation through moving body heat. Detection of occupancy causes the internal SPDT relay to activate and the volt free contact ensures compatibility with a vast array of equipment including BMS digital inputs. An LED indicates detection, this flashes every 2 seconds on detection. The LED will be off when no occupancy is detected.

WALL SENSORS



The OC-W-LV can be directly fixed to a wall or mounted using the angled bracket supplied

CEILING SENSORS



The OC-C-M is an active motion detector for direct ceiling mounting. It emits high-frequency electro-magnetic waves (5.8GHz). It detects the change in echo from even the slightest movement in its detection zone.



Data sheets online: www.sontay.com

WHEN CONTROL IS CRITICAL

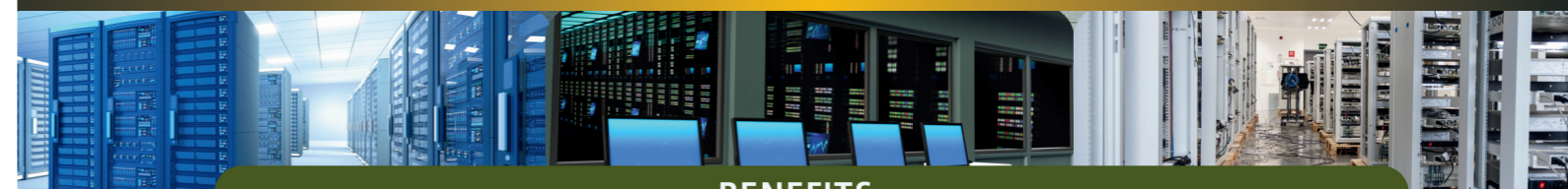
MAKE SURE IT IS SONTAY



POWER MONITORING

BENEFITS

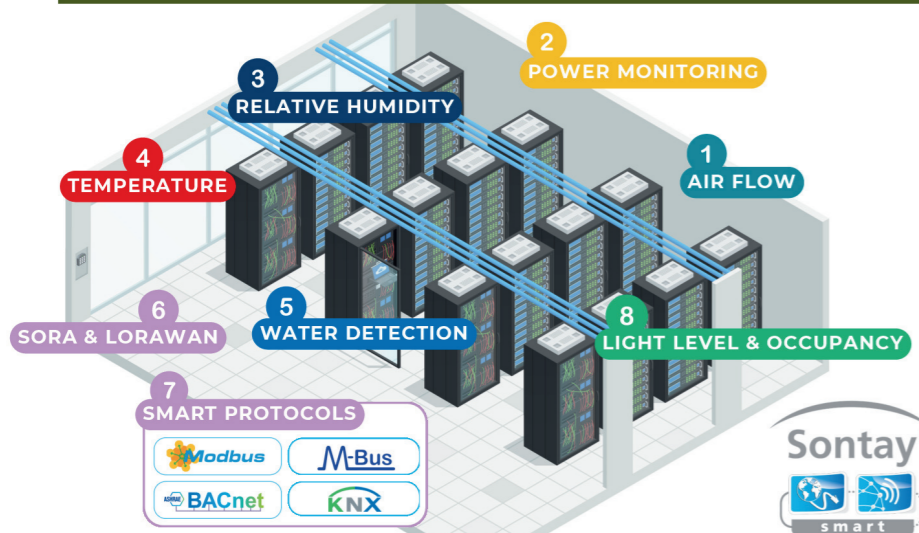
- POWER USAGE**
 - Power use: few kW to several MW · Varies by size and workload ·
- PRECISION**
 - Precise temp & RH setpoints required · Minimal tolerance for deviation ·
- TEMPERATURE**
 - Temp & voltage fluctuations risk overheating · Can disrupt system functions
- REDUNDANCY**
 - High equipment & control redundancy · Exceeds standard building systems



Sontay Sensors for Data Centre Environments

Smart sensing for mission-critical reliability, energy optimisation, and environmental compliance.

SCAN HERE



Data centres demand precise, reliable control. With increasingly narrow environmental tolerances and rising energy costs, effective monitoring is critical to safeguard uptime and reduce waste.

Sontay's smart and traditional sensing range ensures rapid detection of thermal, humidity, airflow, and power anomalies. Helping integrators deliver scalable, standards-compliant BMS solutions.

SMART communicating products differ from conventional products in that they transfer values as data, rather than as analogue signals.

The automation systems for datacentres can vary from simple to extremely complex depending on the tier rating (1 to 4) or how critical the requirements are. Today, the ability to seamlessly integrate all mechanical and electrical controls, monitoring, and metering into a single platform using Smart communication devices, is a common requirement.

Given the high operating costs of data centres, improving energy efficiency can lead to substantial savings.

	Product Code	Applications
1	FS-A	Air Flow
2	PM-CT / PM-EM	Power Monitoring
3	RH	Relative Humidity
4	TT	Temperature
5	WD	Water Detection
6	RF	SORA & LoRaWAN
7	SC	Smart Communication Protocols
8	LL / OC	Light Level & Occupancy



AIR-FLOW MONITORING

- Air flow must be monitored
- Ensures proper ventilation
- Supports system performance



RELATIVE HUMIDITY

- Optimum humidity required
- High = condensation risk
- Low = static & failure risk



WATER DETECTION

- Detect leaks or moisture early
- Use water detection sensors
- Protects equipment & uptime

PM-CS Current Switches

The PM-CS range of current switches can be used to monitor motors, pumps or other electrical loads where a switched output is required. Their low minimum set point and small size make it ideal for monitoring small to medium motor loads. The output can be used for simple run/ fail detection, a normally open solid state switch operates when the current level sensed by the internal transformer exceeds the threshold value. Adjustable set point types, allow for easy detection of broken belts, drive belt slip or pump coupling shear. A typical HVAC motor that loses its load has a reduction of current draw of up to 50%. Fixed set point types, provide a cost-effect solution for monitoring the status of unit vents, exhaust fans, re-circulation pumps and other fixed loads where belt loss is not a concern. reduction of current draw of up to 50%. Fixed set point types, provide a cost-effect solution for monitoring the status of unit vents, exhaust fans, re-circulation pumps and other fixed loads where belt loss is not a concern.

FEATURES

- Load trending
- Voltage output versions self-powered, no supply required
- Dip-switch selectable ranges on 0-10Vdc version
- Unique wire clamp, for easy installation
- Split core versions for fast retrofit installation with no need to remove conductor



Part code	Description
PM-CS-A-01	0.75 to 150A 30Vac/dc, split core
PM-CS-A-02	0.5 to 150A 30Vac/dc, solid core
PM-CS-A-03	0.75 to 150A 240Vac, split core

SPECIFICATION

Ambient Relative Humidity	0 to 95% RH non-condensing
Ambient Temperature Range	-35 to +60°C
Gross Weight (kg)	0.12
Split core dimensions	65 x 50 x 30mm
Split core hole dimensions	13 x 13mm
Supply	Self-powered from monitored line
Trip setpoint	0.75A to 150A
Weight	100g max.
Ambient Temperature Range	-35 to +60°C
Weight	100g max.

Part code	Description
PM-CS-F-01	0.35 to 150A 30Vac/dc, split core
PM-CS-F-02	0.25 to 150A 30Vac/dc solid core
PM-CS-F-03	0.50 to 150A 240Vac, split core

PM-CTR Current Transducers



Current transducers provide accurate load trending information with a choice of 4-20mA, 0-5Vdc and 0-10Vdc output signals. They provide accurate, reliable and maintenance-free operation. Solid and split-core versions are available with current ratings up to 100A. Current versions are supplied with pre-wired 400mm tails and voltage versions have screw terminals. All versions have a unique self-gripping feature which allows the switch to literally clip on to a cable without the need for a base mounting plate.

FEATURES

- Load trending
- Voltage output versions self-powered, no supply required
- Dip-switch selectable ranges on 0-10Vdc version
- Unique wire clamp, for easy installation
- Split core versions for fast retrofit installation with no need to remove conductor

SPECIFICATION

Ambient Relative Humidity	0 to 95% RH non-condensing
Ambient Temperature Range	-35 to +60°C
Current accuracy output	99% (20-100% span)
Current supply output	Loop powered (9 to 35Vdc)
Gross Weight (kg)	0.1
Split core dimensions	65 x 50 x 30mm
Ambient Temperature Range	-35 to +60°C
Weight	100g

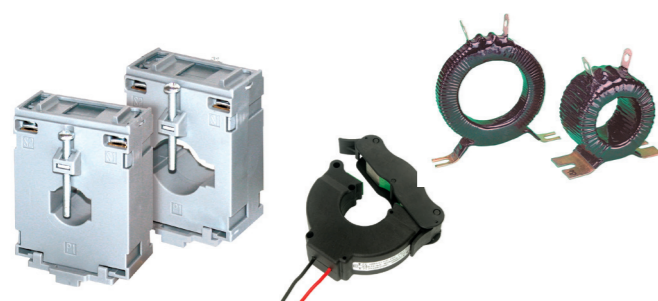
Part code	Description
4-20mA	
PM-CTR-01	Split core 0 to 20A current transducer
PM-CTR-02	Split core 0 to 50A current transducer
PM-CTR-03	Split core 0 to 100A current transducer
PM-CTR-04	Solid core 0 to 20A current transducer
PM-CTR-05	Solid core 0 to 50A current transducer
PM-CTR-06	Solid core 0 to 100A current transducer
0-5Vdc	
PM-CTR-07	Solid core 0 to 10A current transducer
PM-CTR-08	Solid core 0 to 20A current transducer
PM-CTR-09	Solid core 0 to 50A current transducer
PM-CTR-10	Solid core 0 to 100A current transducer
0-10Vdc	
PM-CTR-11	Split core range selectable 0-20 / 0-50 / 0-100A current transducer



Data sheets online: www.sontay.com

Power Monitoring

PM-CT Current Transformers



The PM-CT range of ring type current transformers are for use with Sontay's PM-EM210 & PM-EM24 kWh meters and other suitable equipment.

SPECIFICATION

Ambient relative humidity	up to 95% RH non-condensing
Ambient Temperature Range	-30 to +85°C
Conformity	IEC185, BS7DTA, BSEB 60044-1
Frequency	50/60Hz
Insulation level	3kV (50Hz) for 1 minute (not PM-CT-M)
Overload	1.2 x rated current (continuous)
Weight	750g max.

The split core Current transformers are partially useful for retrofits, upgrades and temporary installations, as they can be fitted without any disruption to the existing installation.

Part code	Description
PM-CT-100SC	100A, 1VA Current Transformer
PM-CT-150SC	150A, 1.5VA Current Transformer
PM-CT-200SC	200A, 2.5VA Current Transformer
PM-CT-250SC	250A, 2.5VA Current Transformer
PM-CT-300SC	300A, 2.5VA Current Transformer
PM-CT-400SC	400A, 5VA Current Transformer
PM-CT-R500	500A, 15VA Current Transformer
PM-CT-R800	800A, 15VA Current Transformer
PM-CT-R100	100A, 10VA Current Transformer
PM-CT-R150	150A, 15VA Current Transformer
PM-CT-R250	250A, 15VA Current Transformer
PM-CT-R300	300A, 15VA Current Transformer
PM-CT-R400	400A, 15VA Current Transformer
PM-CT-R50	50A, 2.5VA Current Transformer

Part code	Description
PM-CT-M250	250A, 5VA Current Transformer
PM-CT-M300	300A, 5VA Current Transformer
PM-CT-M400	400A, 5VA Current Transformer
PM-CT-M500	500A, 10VA Current Transformer
PM-CT-M600	600A, 10VA Current Transformer
PM-CT-M800	800A, 10VA Current Transformer
PM-CT-500SC	500A, 5VA Current Transformer
PM-CT-600SC	600A, 5VA Current Transformer
PM-CT-800SC	800A, 51VA Current Transformer
PM-CT-M100	100A, 2.5VA Current Transformer
PM-CT-M150	150A, 2.5VA Current Transformer
PM-CT-M200	200A, 5VA Current Transformer

PM-EM210 Energy Analyser (DIN-rail or panel mounted)



The PM-EM210-M is a compact energy meter that has a removable front LCD display that allows it to be either DIN-rail or panel mounted. The energy meter is designed for active and reactive energy metering. All operations, including programming and viewing up to seven display pages are performed using the two push buttons on the detachable display. It is possible to block the access to programming by means of a trimmer position on the rear of the display. Standard meters are non-MID. For billing use, add annex -B+D option. Extra system information is required please contact Sontay Support.

FEATURES

- Detachable display
- Multi-use housing for both Din-rail and panel mounting applications
- Compact size
- Modbus output
- Self-powered

SPECIFICATION

Ambient relative humidity	0 to 90% RH non-condensing
Ambient Temperature Range	-25 to +55°C
Display	2 lines
Frequency	45 to 65Hz
Housing	Nylon PA66, self-extinguishing UL 94 V-0
Modbus Output Type	RS485
Mounting	DIN-rail or panel
Protection	IP50 (front)
Pulse Output Type	Open collector
Refresh time	1/s
RS 485 address	Programmable, 1 to 247
Single-Phase Measurements	VLL, VLN, A, PF, kWh, Kvarh
System Measurements	W, var, PF,Hz, Phase-sequence
Weight	260g

Part code	Description
PM-EM210-M	Energy Analyser - Modbus Output
PM-EM210-P	Energy Analyser - Pulsed Output
<i>Option (add to part code above)</i>	
-B+D	MID Cert Annex B+D

APPLICATIONS

- 3-Phase, 4-wire balanced & unbalanced load
- 3-Phase, 3-wire balanced & unbalanced load
- 2-Phase, 3-wire
- 1-Phase, 2-wire

PM-EM24 Energy Analyser (DIN-rail)



The PM-EM24 DIN-rail mounted energy analyser is designed for active and reactive energy metering. When using the optional RS-485 ModBus output it is possible to connect up to three additional pulse inputs from other metering equipment enabling all consumption data to be read from just one meter.

PM-EM24 features eight user-selectable applications are available to allow fast setup, with lockable programme selector, and joystick control of up to 31 LCD display pages. Standard meters are non-MID. For billing use, add annex -D option. Extra system information is required please contact Sontay Support.

FEATURES

- Gas and water measurements and multi-tariff management in only one instrument
- Easy variable scrolling by means of the front joystick
- Pulsed or Modbus output options
- Two digital outputs (alarms or/and pulses) or RS485 communication port

SPECIFICATION

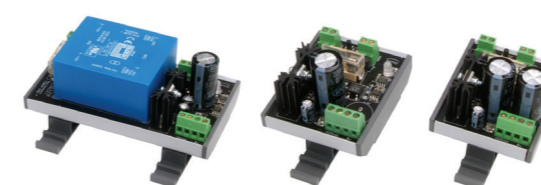
Ambient relative humidity	0 to 90% RH non-condensing
Ambient Temperature Range	-25 to +55°C
Baud rate output type	Programmable, 4800, 9600 bit/s
Display	3 lines (1 x 8 digit, 2 x 4 digit)
Display Refresh time	750m/s
Frequency	45 to 65Hz
Housing	Nylon PA66, self-extinguishing UL 94 V-0
Modbus Output Type	RS485
Mounting	DIN-rail or panel (optional PM-PMK)
Protection	IP50 (front)
Pulse Output Type	Open collector
Sampling rate	1600 samples /s @50Hz, 1900 samples /s @60Hz
Weight	360g

Part code	Description
PM-EM24-M	Energy Analyser - Modbus Output
-D	Annex-D Certification
PM-EM24-P	Energy Analyser - Pulsed Output
PM-PMK	Panel door mounting kit

APPLICATIONS

- Advanced LED indication of faults
- PCB self-test function
- DIN Rail mounting
- Fault finding LED indication
- Alarm output

PS 24Vdc Output Supplies



Sontay's range of 24Vdc power supplies offer advanced protection, self diagnostics and self-test facilities to make installation and commissioning quicker and easier than ever before. 240Vac and 24Vdc input versions are available, all featuring over-current and over-voltage protection, LED indication of a wide range of conditions, an optional alarm relay output for loss of input and on-PCB reset button.

FEATURES

- Advanced LED indication of faults
- PCB self-test function
- DIN Rail mounting
- Fault finding LED indication
- Alarm output

SPECIFICATION

Ambient relative humidity	0 to 95% RH non-condensing
Ambient Temperature Range	-10 to +50°C
LED indication	Power ON, low output voltage, high output voltage, output voltage within limits, reset button pressed, self-test in progress
Output	24Vdc @ 1A
Supply	240Vac and 24Vdc
Weight	620g

Part code	Description
PS-24-24DC-1A	24Vac-24Vdc, 1A floating Supply module
PS-24-24DC-E	240Vac-24Vdc, 1A Supply module
PS-230-24DC-1A	24Vac-24Vdc, grounded Supply module

THE 24VAC INPUT TYPE IS AVAILABLE IN TWO VERSIONS:

1. PS-24-24DC-1A – the input 0V and the output 0V are NOT common.
2. PS-24-24DC-E – the input 0V and the output 0V are common on the PCB.

This allows the user a choice, depending on what type of field wiring is installed.

Data sheets online: www.sontay.com

Data sheets online: www.sontay.com

Power Monitoring

Power Monitoring