MSP 100
Control cabinet monitoring via Environmental Multisensor

Art. No. 11167 V1

Product description

The MSP 100 is an industrial Environmental Multisensor of the latest generation for Building-, System- and Infrastructure monitoring.

The Environmental Multisensor measures temperature and relative humidity with high precision and horizontal air flow through the sensor.

Der MSP 100 has power and status LED displays.

The sensor finder LED function allows the sensor to be found quickly in large networks.

Per ESERA Plug and Play system, called Auto-E-Connect, the MSP 100 is installed fully automatically in the ECO Controller.

The ESERA Auto-E-Connect system, which is an extension of the 1-Wire Bus standard, has been registered by ESERA GmbH as a German and European Patent.

Installation takes just a few minutes using the Dual Push In plug-in system..

Thanks to a sophisticated EMC and earthing concept, the Environmental Multisensor is optimally prepared for reliable operation in industrial environments.

The housing is protected against vandalism and optimised for mounting in control cabinet doors.

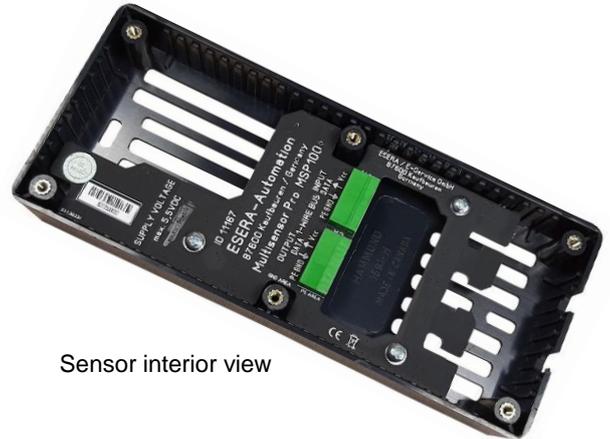Elegant surface-mounted housing

Simple power supply (5VDC)

Highlights

Highly accurate Temperature- and rel. Humidity Sensor
—
High-quality sensor housing for mounting in 19" cabinet doors
—
LED – displays for power and status
—
Sensor Finder LED - display
—
10 years long- term available
—
1-Wire Industrial 1-Wire Bus optimised for linear topology / Daisy Chain System
—
Auto-E-Connect Plug and Play System I to III
—
Vandalism protected connection
—
Long live industrial version Extensive protective circuits
—
Connection via Push In terminals
—
Power supply 5VDC

Customisation and optional equiments

- Fast and cost-effective customer adaptations possible thanks to ESERA 80/20 concept.
  80% existing technology, 20% adaptations to customer requirements.
- Customisation of sensor equipment already possible for small order quantities of 100 units or more.
- Expandable with additional sensor elements, e.g. CO2, VOC (air quality), air pressure, Ozone (O3), Nitrogen dioxide (NO2), etc.
- Painted electronics (conformal coating) or high operational reliability under permanently high or strongly fluctuating humidity conditions.

Sensor interior view

Key Features (Basic unit)

Sensors, Accuracy	temperature meas.range -40 to +85°C, accuracy 0,2°C at 5 - 60°C rel.humidity, measuring range 0-100%, accuracy 2% at 20-80% at 25°C
Auto-E-Connect Feature	**Pre Configuration**, desired OWD storage **Automatic positioning**, OWD extended Plug And Play **Sensorfinder function**, LED-display for sensor recognition **Classes Assignment**, OWD class via ECO Controller
Bus interface	1-Wire Industrial Bus with ESERA Auto-E-Connect System, Level I – III 5V, Data In, Data Out, ground/GND and earthing (earth, functional earth)
LED Display	LED green for power LED yellow for status and sensor finder
Equipment	sophisticated EMC and earthing concept overvoltage protection up to 28V for data line and power supply
Power consumption	0,1W, 20mA at 5V
Connection	2 x 5 pole Push In terminals for linear topology and earthing (FE)
Dimensions	165 x 70 x 30 mm (W x H x D)
Housing	ABS Plastic, black
Protection system, Prot. class	IP20 / Protection class II
Temperature, Operation	-25°C to +70°C
Air humidity, Operation	10-92%, non condensing

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