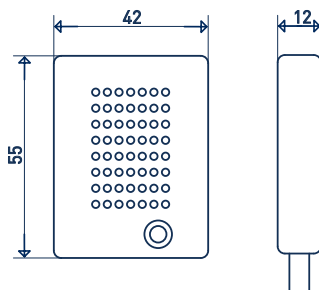


Monitorix[®] DIGITAL-sensor

TECHNICAL DATA SHEET



Mechanical properties

dimensions	55 x 42 x 12 mm
weight	25 g (without cable)

Electrical properties

supply voltage	+12V \pm 30 % (reverse polarity protected)
Bus-interface	LIN
special feature	redundant temperature and humidity sensors
CE conformity	

Connections

1x LIN-Bus

Ambient conditions

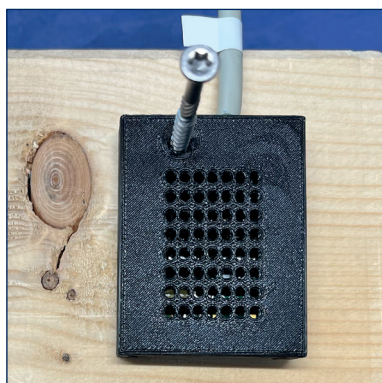
storage	10 ... 30 °C / 40 ... 60 % RH
operation	-25 ... +70 °C / 0 ... 100 % RH (non-condensing)

Humidity

measuring range	0 ... 100 %
accuracy	\pm 2 %
resolution	0.04 %
sensor	Kapazitiv-Polymer

Temperatur

measuring range	-40 ... +100 °C
accuracy	\pm 0.5 °C
resolution	0.025 °C
sensor	PTAT



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FUNCTION

The DIGITAL-sensor is a digital point sensor that measures the temperature using PT100 and the water molecules using the capacitor principle (charge exchange) on the measuring surface. At 1 bar ambient pressure, the DIGITAL-sensor calculates the RH in % and transmits the measurement data via LIN-bus-protocol to the tron-PU or tron-CON. The DIGITAL-sensor is specially designed for use in flat roofs, screed, etc. For SIHGA Monitorix systems equipped with WET sensor strips, the DIGITAL-sensor serves as a reference sensor. To ensure reliable operation of the DIGITAL-sensor, two digital humidity and temperature electronic components are installed on the DIGITAL-sensor PPCB.

NOTES ON THE APPLICABILITY AND VALIDITY OF THE DATA SHEET

All information is intended for professionals such as architects, building planners, tradesmen in the construction / roofing, carpentry and gardening and landscaping trades. They do not release you from your own responsibility. They have been compiled to the best of our knowledge, but do not constitute a guarantee. The currently applicable standards and recognised rules of technology apply to all planning and execution. We reserve the right to make changes due to improvements in application or production technology. The contents of the data sheet do not replace object-related, specialised structural planning. Interfaces to neighbouring trades are not highlighted separately, but must nevertheless be taken into account during planning and execution.

IMPORTANT NOTE: Please ensure that the sensors and sensor tracks are installed when dry!

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