

TDS

Digital Temperature Measuring Chain

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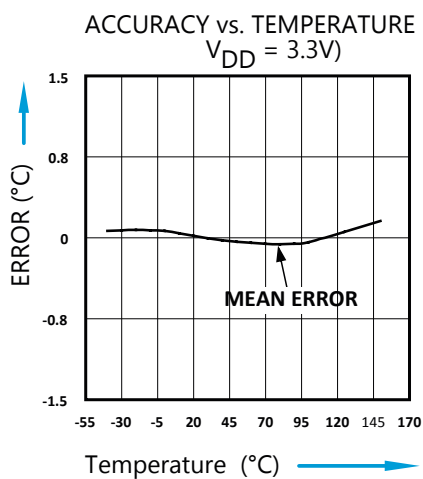
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The temperature sensors TDS (Temperature Digital Sensor) consist of a digital temperature sensor with integrated measured value adjustment and 16-bit A/D- converter. The communication is via I²C-bus und allows the extension to a digital temperature measuring chain with up to 32 addressable sensors.

Each chain includes a controller (DCT) so that numerous chains can be connected in a row. The measurement and data acquisition can be performed by an MCC.

The sensor housing is made of stainless steel with pressure-tight sealing.



Technical Specifications

Accuracy:	Type: $\pm 0.1^\circ\text{C}$, Max: $+0.5^\circ\text{C}$
Precision:	0.0625 $^\circ\text{C}$
Temperature range:	-40°C up to 105°C
Extended Temperature range:	-55°C up to $+150^\circ\text{C}$
Protection Class:	IP68

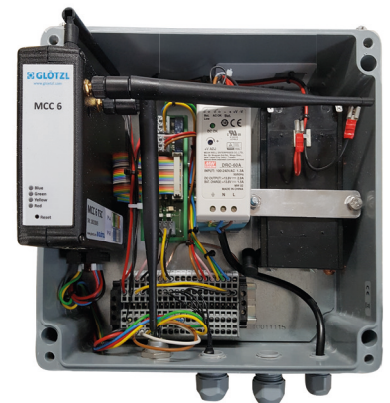


Fig.: Measurement Communication Control System MCC 6

SCHEMATIC LAYOUT

Digital Temperature Measuring Chain

