Energy Controller Datasheet
Buffer-Temperature-Sensor

Digital 3-way Temperature Sensor for Hot Water Tanks

Highly accurate and easy to install chain of digital sensors for hot water storage in heating technology.
The buffer temperature sensor extends the SCH.E.I.D.L Energy Controller by several measurement points. It is automatically detected and installed by plugging in a single connector. So it allows the precise determination of heat produced or consumed and reservoir loss.

Used as Data-Logger, the SCH.E.I.D.L Energy Controller is a powerful device for monitoring and optimization all types of building services.
The ergonomic user interface is accessible via network on standard PC in normal browsers, or on smartphones and tablets. This makes each kind of facility transparent for analysis and improvement.

Operation and Use

- For universal use with any device supporting 1-Wire e.g. DS9490R via RJ45 adapter
- To expand the SCH.E.I.D.L Energy Controller by all relevant data points of a hot water buffer:
  - temperature top in °C
  - temperature mid in °C
  - Temperature down in °C
  - charging power in kW th.
  - Energy content in kWh th.
- Scope of supply:
  - High temperature connector cable between 3 sensors with magnets and 2 plugs
  - Y-adapter
- Heat quantity measurement without pipe section
- Contact sensor mounted by magnetism, installable without drilling on a filled tank, thin enough to fit between insulating material and tank
- Simple, fast and reliable mountable by plugging, no jamming of single wires, no reverse polarity
- Other sensors are on the same bus cable consecutively chained by supplied Y-adapter or the second connector
- Silicone cable of high quality, resistant over the entire measuring range
- Reinforced protection against electromagnetic disturbance (EMS). CE-approved with surge and burst according standards
- Part number:
  4 260376 260071

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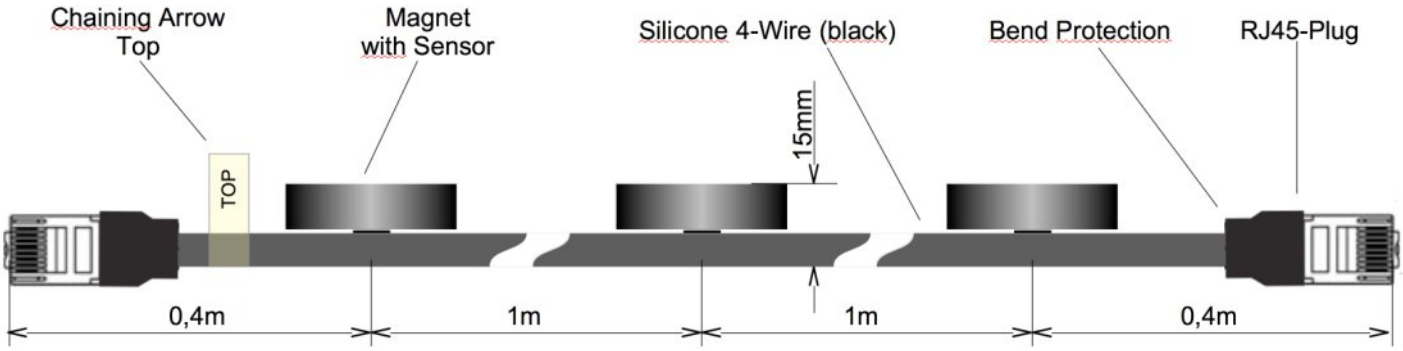
Technical Specification

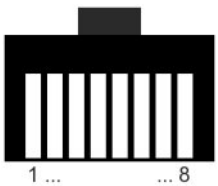


Measuring Range:
-55°C to +125°C

Resolution:
Resolution 0,0625°C
calibrated to +/-0,5°C

Digital Sensor:
3x Maxim DS18B20+
for 1-Wire Bus

Plug:
RJ45 plug for digital bus
Plug up and down allows transfer to other sensors, strain relief ensures contact, with snap tap and bend protection, not suitable for permanent mechanical load (moving, tension)
Pin assignment of the plug front:
- Pin 2: +5V
- Pin 4: 1-Wire
- Pin 5: GND
- Pin 7: +12V



Power Supply:
+3V to +5,5V DC
max 1,5mA, Standby 0,003mA

Connecting Cable:
Silicone-cable, highly flexible, black and round. Heat resistant -55°C to +180°C
0,4m length towards bus connector

Magnetic Mounting:
Adhesive force: 3,6kg
Heat resistant -55°C to +180°C
7mm thickness, 25mm diameter

Dimensions:
2,8m length over all
thereof 2m max. distance between sensors
15mm depth

Protection: IP30

Storage Temperature: -50°C to +125°C

Declaration of Conformity: CE Standard for Electromagnetic Compatibility EN 55014-1 and EN 61000
ElektroG WEEE-Reg.-Nr. DE 31037580
RoHS and REACh

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