

## Precision Temperature sensor:

### TYPE TS21

#### **INTERCHANGEABLE CHIP THERMISTOR BUILT IN WEATHER SCREEN TYPE WS21**

#### **DESCRIPTION TS21:**

Epoxy coated interchangeable chip thermistor  
value: 10kOhm at 25 °C

#### **FEATURES:**

- **Precision, solid state temperature sensor accuracy 0.1 °C, overall typ < 0.2 °C**
- Interchangeability down to  $\pm 0.1$  °C
- Suitable for use over the range of -80°C to 150°C
- High sensitivity greater than -4%/°C at 25°C
- Suitable for temperature measurement, control and compensation
- High reliability and stability over interchangeable range

**Can be connected direct to Datalogger EKO21N or iBOX with accurate 16 Bits ADC precision temperature input.**

**A very practical precision temperature measurement with only 2 wires and cable can be extended without loss of accuracy! Optional cable and waterproof cable connectors are available.**

#### **OPTIONS:**

*Consult factory for availability of options:*

- Other resistance values in the range of 100~ - 100k~
- Other tolerances or ranges
- Non standard R-vs -T curves
- Waterproof versions for in water/pipes
- Clamp-on versions for pipes
- Optional weather screen WS21



The Air Temperature sensor is built in weather screen WS21 for outdoor applications. Standard cable length 5 m (specify at order).

Can be combined with HUM21 humidity sensor  
Standard cable length 2 meter. **a low cost precision and compact Temperature/ Humidity sensor unit!**

#### **DATA:**

##### **THERMAL AND ELECTRICAL PROPERTIES:**

<b>Dissipation constant:</b>	(still air)	1 mW/°C
	(stirred oil)	8 mW/°C
<b>Thermal time constant: .....</b>	(still air)	10 sec.
	(stirred oil)	1 sec.
<b>Maximum power at 25°C .....</b>	75mW	
(derated from 100% at 25°C to 0% at 100°C)		