

TDE Retrofit Temperature Sensors

TDE sensors have been designed to retrofitting applications. TDE sensor measurement element can be inserted inside the existing brass or stainless steel pockets.

TDE sensors are supplied with 2m mounting cable, with heat paste and with mounting spring for pockets with diameter larger than Ø6.5 mm.

The TDE retrofitting temperature sensors are used together with HRP and LRP controllers in the closed loop control systems. The TDE sensors use KP10 measurement system (see the characteristics table overleaf).

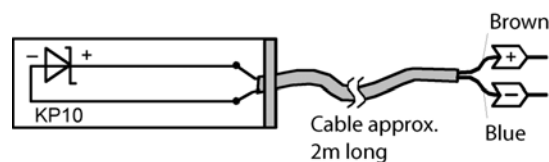


Model Types	Model	Description
	TDE	TDE Retrofitting Temperature Sensor with 2m cable, KP10 measurement element (HRP/LRP controller compliant)
Technical Data	Sensor Element	KP Measurement System, 2.73V at 0°C, TK = 10mV/K
	Operating Range	10...+130°C
	Connection	2-wire silicon cable, approximately 2m long
	Protection class	IP 65
	Time Constant	63 seconds

Installation and Wiring

The electrical installation may only be carried out by qualified personnel. The local wiring regulations must be observed.

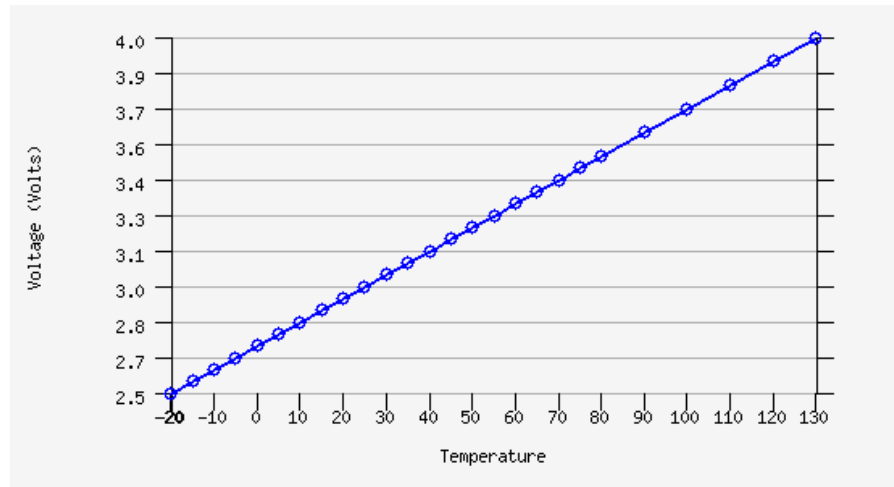
Note: It is important that the polarity of the cabling is carefully observed.



Temperature / Voltage

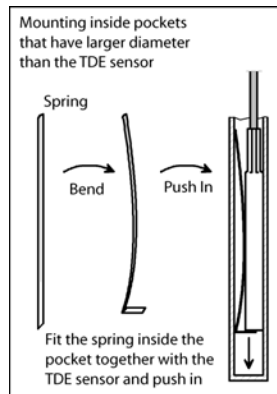
°C	KP10/Volts	°C	KP10/Volts
130	4.03	40	3.13
120	3.93	35	3.08
110	3.83	30	3.03
100	3.73	25	2.98
90	3.63	20	2.93
80	3.53	15	2.88
75	3.48	10	2.83
70	3.43	5	2.78
65	3.38	0	2.73
60	3.33	-5	2.68
55	3.28	-10	2.63
50	3.23	-15	2.58
45	3.18	-20	2.53

KP10 Sensor Characteristics



Mounting

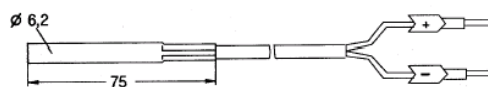
Mounting may only be carried out by qualified personnel.



The sensor is supplied with spring to aid mounting and with heat paste to help heat transfer between the existing pocket and the sensor element.

- The measurement element must be installed to the existing pocket so that the heat transfer between the pocket and the element is not restricted.
- When the pocket diameter is more than 6.5mm, use the mounting spring supplied together with the sensor to mount the sensor element inside the pocket. Clean the pocket inside. Insert heat paste into the pocket. Bend the spring and push it inside the pocket together with the sensor element. Continue inserting the sensor element and the spring deeper until the end of the pocket is reached.

Dimensions



Connection cable approximately 2m.