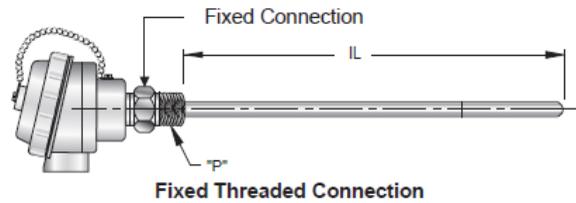


## Installation, Operation & Maintenance Manual for Strataa Series 2511RTD & 2511TC - Thermocouple



### 1. Safety Instructions

When mounting, starting and operating these instruments it is important to observe the respective national safety precautions and regulations in effect. Please ensure the correct selection of instruments/thermowells with regard to the maximum pressure and temperature.

++ Serious injuries and/or damage can occur if the relevant regulations not be observed.

Only qualified persons authorized by the plant manager are permitted to install and service these instruments.

### 2. Mounting

The thermometer should be mounted in such a way that the permissible operating temperature (ambient, medium) is not exceeded, in terms of ambient and medium temperature, but also with respect to convected and radiant heat.

The plant must always be free from pressure before disconnecting the thermometer. Electrical connection must be carried out in accordance with the sensor connections/pin assignments shown in the diagrams that follow.

### 3. Special Wiring Advice

++ Damage to cables and wires, as well as connection points must be avoided.

++ Flying leads with bare ends must be covered by an end splice (cable preparation).

++ Both the internal capacitance and inductance must be considered.

### 4. Storage

Measuring instruments should be protected against humidity and dust.

Storage temperature:

-40 ... +85 °C (for devices without build in transmitter). Please find the storage temperature of devices with build in transmitter in the manual of the corresponding transmitter model.

### 5. Maintenance & Servicing / Repairs

The instruments require no maintenance or servicing. Repairs must only be carried out by the manufacturer.

### 6. Cable connections

In practice, when assembling the cable gland with certain cables and leads, the protection class might not be met if deviations from the original standard's test conditions are too great (e.g. cable is not circular, cable is twisted, cable is too flexible, i.e. not enough cross-sectional or longitudinal stiffness, cable with a different surface roughness, etc.).

### Requirements for meeting protection class

++ Only use cable glands within their indicated clamping range (Cable diameter suitable for the cable gland).

++ Do not use the lower clamping range with very soft cable types.

++ Only use circular cross-section cables (if necessary, slightly oval in cross-section)

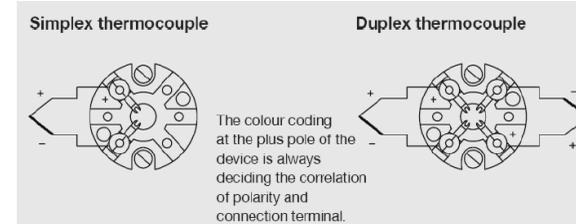
++ Opening/closing is possible; however only if necessary as it might have a detrimental effect on the protection class.

For cable with a pronounced cold-flow behavior the screw connection must be fully tightened.

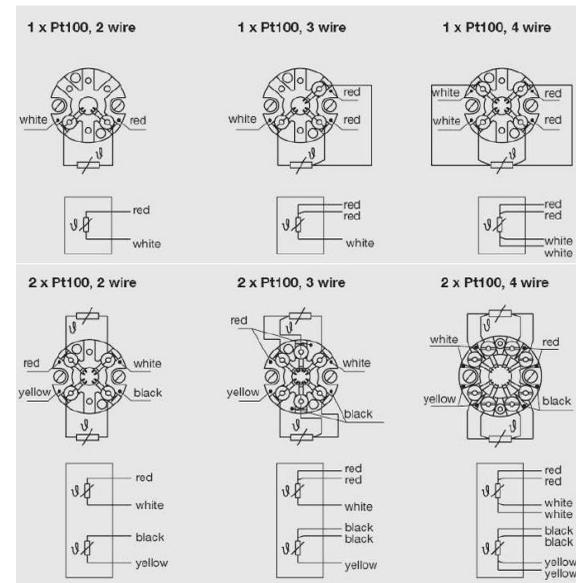
Note : The protection class is not valid with armored cables (Stainless Steel sheathed).

### 7. Electrical Connections

#### Thermocouples with terminal block



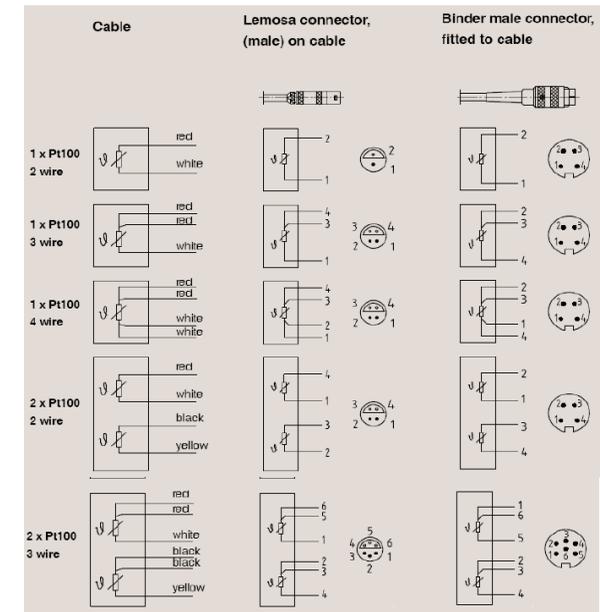
#### Resistance Thermometers with terminal block



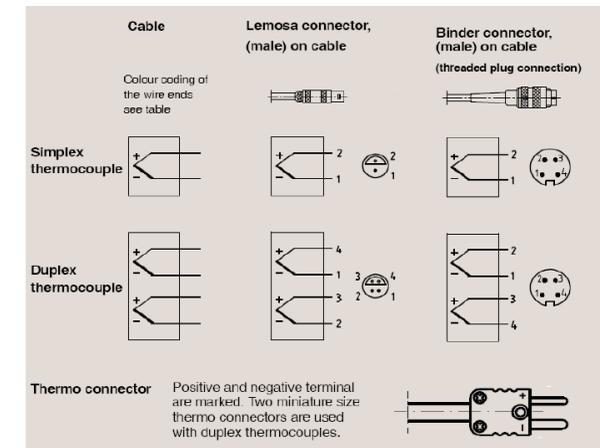
#### Color code of cable

Type of sensor	Standard	Positive terminal	Negative terminal
K	DIN EN 60 584	green	white
J	DIN EN 60 584	black	white
E	DIN EN 60 584	violet	white
T	DIN EN 60 584	brown	white
N	DIN EN 60 584	pink	white

#### Resistance Thermometers with cable connection or male connection



#### Thermocouples with cable connection or male connection



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