FIBER OPTIC INFRARED THERMOMETER

FTK9 Series

Features

- Small converter size
- Close access to the target
- Measuring range 600~2,000°C
- Linear selectable analog output
- Easy set-up using parameter setting unit PWC1



Description

FTK9 series infrared thermometers employ fiber optic cable designed for precise non-contact temperature measurement of otherwise inaccessible or moving targets. Thermometer consists of a remote sensor head, fiber optic cable and a converter unit. Infrared energy of the target is passed on from the lens to the converter unit through a fiber optic cable. The converter unit converts infrared energy into linear analog output signal for convenient display or recording by external devices like temperature indicator, controller, recorder or PLC. Analog output scaling is possible. Optional computer interface is available. Single point alarm output is provided.

Thermometer is equipped with a LED guide light for aiming at the target and for indication of the target spot size. It is also equipped with peak hold and smoothing function.



Parameter setting unit PWC1

Reflection correction function is available in case of error caused by target surface is reflecting any external energy.

Sensor head and fiber optic cable can withstand ambient temperature up to 150°C allowing close access to target for precise temperature measurement under harsh environmental conditions. Length of the fiber optic cable can be chosen to keep the converter unit safely away from extreme environment. Converter unit also has robust design and work well at ambient temperature of up to 70°C.

Parameter setting unit

Various measurement parameters of thermometers such as emissivity correction, temperature measurement mode, measuring range, analog output scaling, alarm point and response time can be programmed into the converter unit using parameter setting unit.

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