New pyrometer IR702 for non-contact temperature measurement of metal, steel and iron

With the IR702 novasens Sensortechnik presents a new pyrometer for non-contact temperature measurement of metal, steel and iron in the low temperature range.

The special spectral sensitivity of the sensor is 2.2µm and, in contrast to a conventional pyrometer which measures in the spectral range of 8-14µm, enables temperature detection even of bare and polished metal surfaces.

The application range of the IR702 pyrometer is non-contact temperature measurement for a variety of applications in the metal industry and metallurgy:

Melting processes, molten steel, heat treatment/tempering, rolling processes, laser cutting processes, laser welding, welding processes, continuous casting, metal recycling, forming processes, sintering processes, die casting processes, steel rolling, brazing, induction process monitoring and induction heating.

Through the principle of infrared temperature measurement, the sensor is able to measure the temperature of red-hot parts and components without having to touch them.

The USB adapter cable included in the scope of delivery and the free novasens Config-Software make it easy to configure the pyrometer directly on the system.

The ModBus RTU interface integrates the sensor into existing sensor networks and offers parameterisation even during operation. In this way, the pyrometer can be adjusted to the emissivity of different metals during the production process. By means of an integrated temperature linear 4-20mA analogue output, the measured temperature is transmitted to the PLC, data logger and panel meter for further processing.

Various precision optics are available for the precise detection of the measurement objects, even over long measurement distances.

With its compact, robust stainless steel housing with IP65 protection, the pyrometer can also be integrated where there is little space available in the machine or where harsh ambient conditions prevail.

A comprehensive range of accessories, such as a water cooling jacket for use in very high ambient temperatures, an adjustable sensor holder or an air purge attachment, allows the IR702 pyrometer to be customized for the specific application.

Its cost-effective price also makes the novasens IR702 pyrometer attractive for OEM applications: Machine manufacturers in the metal processing sector can add an important temperature measurement function to their machines for process optimization and quality control by integrating the IR702.

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