

SP *i-tec* 2005

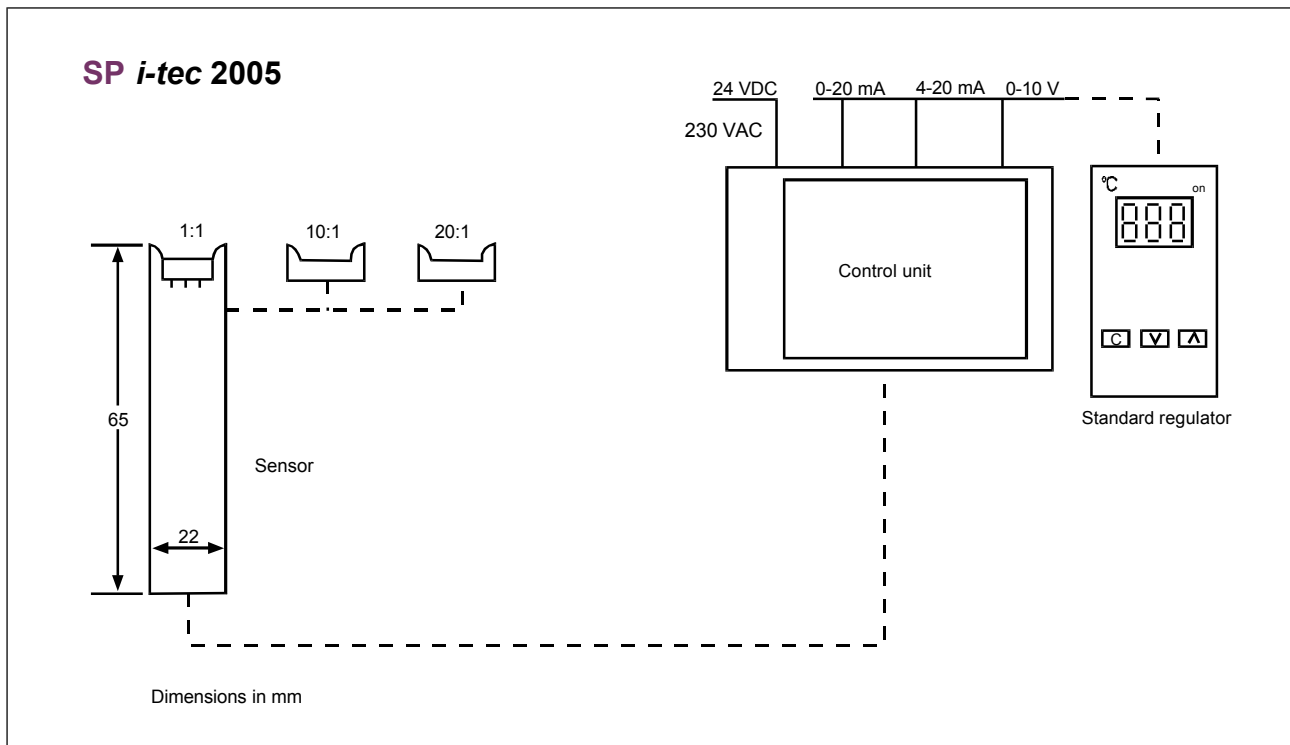
Controlling and regulation of industrial production processes contactless with infrared



The SP *i-tec* 2005 is an infrared non-contact temperature measuring instrument for combination with all standard temperature regulators and PLC's.

- ▶ Temperature range switchable: 0-100°C, 0-200°C, 0-250°C, 0-400°C or 0-500°C. Optional 400-1200°C
- ▶ Calibrated to international standards
- ▶ Output exchangeable: 0-20 mA, 4-20 mA or 0-10 V
- ▶ Separate plug-in sensor with exchangeable optics
- ▶ Sensor with connection for air cooling and lens cleaning
- ▶ Protective jacket of teflon or metal
- ▶ General applicable for the controlling and regulation of industrial processes
- ▶ Mounting on DIN rail possible
- ▶ Sensor cable up to 40 m
- ▶ Temperature registration of all materials before, during and after the production process
- ▶ Small dimensions, easy to install
- ▶ Smallest spot sizes up to 3 mm possible
- ▶ Also in stainless steel available

Technical specifications			
Temperature range	0-100°C, 0-200°C, 0-250°C, 0-400°C, 0-500°C. Optional 400-1200°C	Acceptable ambient temperature/sensor	0 to 50°C (without cooling)
Resolution	0,1°C	Acceptable ambient temperature/unit	0 to 60°C
Response time	50 ms	Acceptable moisture	Sensor: 65%
Accuracy	± 1% of the temperature range	Power Supply	24 VDC or 230 VAC
Repeatability	0,5°C (0 to 100°C) 1,0°C (above 100°C)	Dimensions/housing	W = 120 mm, H = 80 mm, D = 60 mm
Distance/ Aperture spot	1 : 1 (see the options as well)	Dimensions/sensor	L = 65 mm, Ø = 22 mm (40 mm with protective jacket)
Minimum spot size diameter	8 mm Ø Optional 2.5 mm Ø	Output	0 - 20 mA, 4 - 20 mA or 0 - 10 V
Spectral response	8 - 14 µm	Max. load	500 Ohm
Emissivity coefficient compensation	1,0 - 0,1	Cable connection	PG 7, plastic



Options

- ▶ Auxiliary optic for distance/measuring spot 10 : 1 (smallest measuring spot 8 mm in 50 mm distance)
- ▶ Auxiliary optic for distance/measuring spot 20 : 1 (smallest measuring spot 13 mm in 146 mm distance)
- ▶ Laser sighting to pinpoint targets
- ▶ Air cooling kit: pressure regulator, incl. filter and hose (3 m)
- ▶ Protective jacket of teflon or metal
- ▶ Cable extension up to 40 m