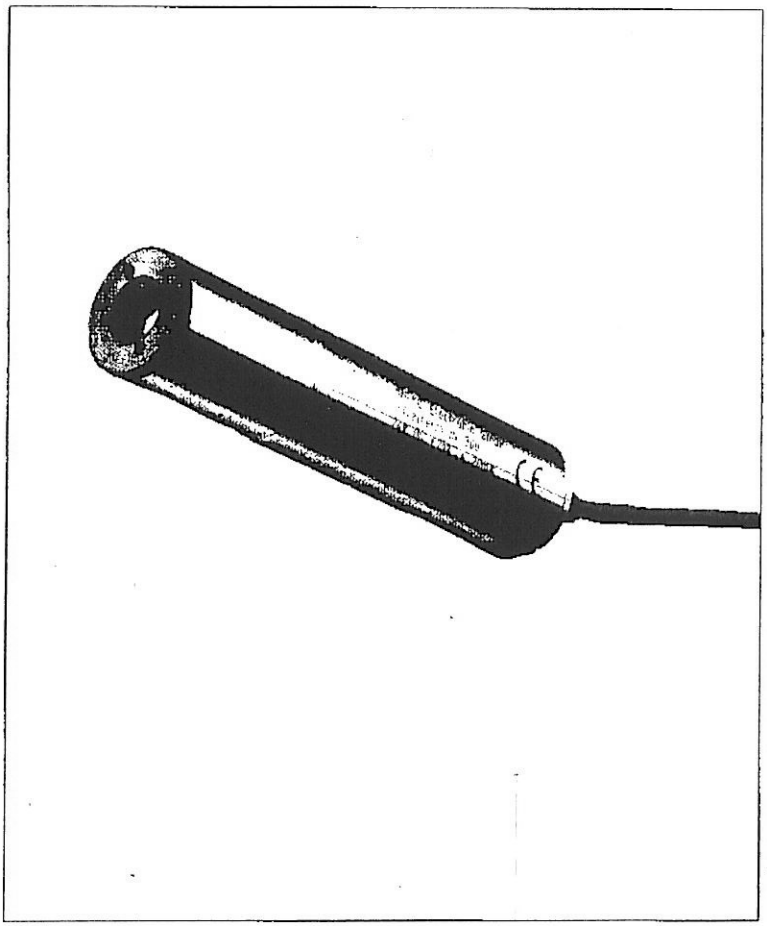
Estrotherm 300

Stationary infrared sensor head for non-contact temperature measurement of non-metallic objects between -20°C and +500°C in 2-wire technique

The compact instrument

- Linear current output
- 2-wire technique
- Stainless steel housing
- Emissivity adjustable
- Easy to install and to connect
- Suitable for food industry
- Up to 70°C operating temperature



Typical Applications:

Measurement of plastics, rubber, paper, ceramics, textiles, fluids, painted parts, asphalt, wood, glass, food etc.

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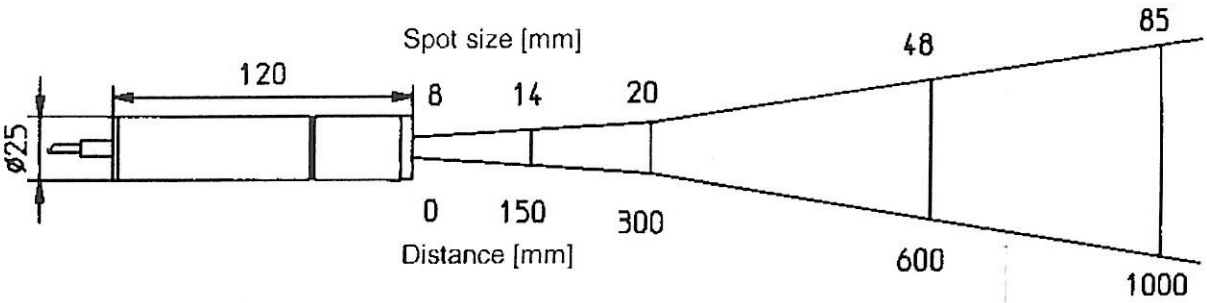
Technical Data:

Spectral response:	8...14µm (no influence of water vapour)	Power supply:	24 VDC ± 25% stabilised, ripple < 50mV
IR-detector:	Thermopile Si-based	Operating temperature:	0 ... +70°C
Optics:	Ge-lens (see chart)	Storage temperature:	-20 ... +70°C
Output:	4...20 mA, load independent current,	Housing:	Stainless steel
	linear to temperature	Housing dimensions:	120 mm x 25 mm (L x D)
Max load:	500 Ohms @ 24 V supply	Safety system:	IP 65 (according to DIN 40 050)
Emissivity:	0.4...1; adjustable	Safety class:	I according to VDE 0411
Response time t_{90}:	300 ms; fixed	Mounting position:	any
Accuracy:	1.5% of the measuring range	Weight:	215g
	(@ correct emissivity, Tamb = 23°C)	Connection cable:	2 m, fixed
Repeatability:	±1% of the measuring range	EMV-tests:	CE-label for ESD, RF-radiation
Temp. dependance:	0...60°C: 0.03% of meas. range/K (23°C)		bursts, electromagnetic fields

Measuring ranges:

Temperature range
0 ...+100°C
0 ...+200°C
-20 ...+300°C
0 ...+500°C

Optics:



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