

AUTOSMART AGRI

Special IR sensor assembly for leaf and crop temperature measurements in greenhouses

Product Overview

The AutoSmart AGRI assembly consists of:

- Small size non-contact temperature sensor
- Teflon housing for protection and stability
- Flexible gooseneck for easy sensor positioning
- Clamp for mounting
- Customizable cable length

The AutoSmart AGRI features:

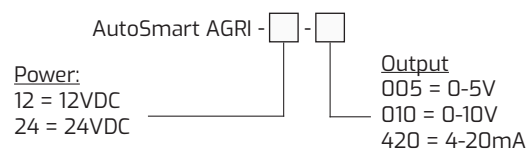
- Output options 0-5V, 0-10V, 4-20mA
- Repeatability error 0,1% full scale
- Interchangeability $\pm 1,5\%$ full scale
- Resolution approx. 0,1°C
- Special calibration for leaf temperature

Technical Data

Sensor Range	-10 to 50°C (14 to 122°F)
Sensor Ambient Temperature Range	-40 to 185°C (-40 to 80°F)
Transmitter Ambient Temperature Range	0 to 70°C (32 to 158°F)
Storage Temperature Range	-10 to 70°C (14 to 158°F)
Field of View	110° (1:2) approximately
Minimum Spot Size	3 mm (0.1")
Spectral Response	5,0 to 20µm
Update Time	Approximately 250 msec.
First Reading Upon Power Up	Approximately 2 seconds
Cable	3 m (9.8 ft) 22AWG*4C + F + Jacket black PUR cable OD=5.0mm -40°C~+105°C
Housing	Sensor: Stainless steel, hermetically sealed, exceeds NEMA 4X, IP67. Teflon housing for thermal stability and protection. Transmitter: Heavy Duty SS, NEMA, IP54.

Sensor housing dimensions	15 mm (0.59") Dia x 40 mm (1.57")
Weight total assembly	220g (7.7oz.)
Emissivity Setting	0,90
Power	12 or 24VDC ($\pm 10\%$). Shuts off when voltage is functionally low
Power Consumption	$\pm 10\text{mA}$ (without output signal device)
Loop Impedance	(4-20mA models) $> 500\Omega$
Clamp	60 mm (2.36") x 100 mm (3.94"), max 35 mm (0.14") span, rubber pads

Ordering Information



Dimensions

