

### 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

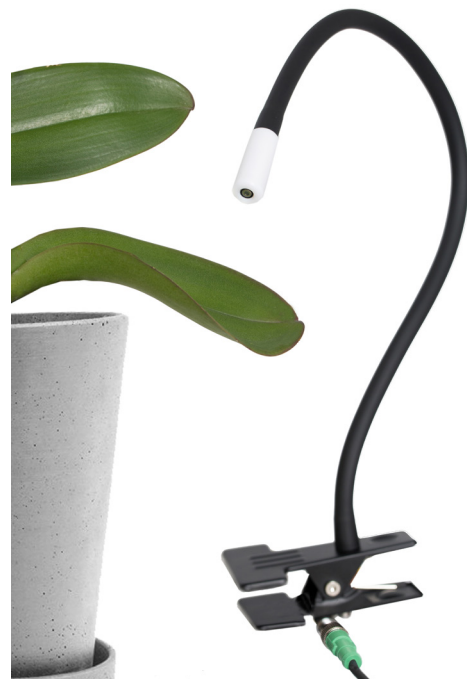
The AutoSmart AGRI sensor features:

- 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

Sensing Range	14 to 122°F (-10 to 50°C)
Sensor Ambient Temperature Range	-40 to 185°F (-40 to 80°C)
Transmitter Ambient Temperature Range	32 to 158°F (0 to 70°C)
Storage Temperature Range	14 to 158°F (-10 to 70°C)
Field of View	1:2 (110°) approximately
Minimum Spot Size	0.1" (3mm)
Spectral Response	5.0 to 20 $\mu$ m
Update Time	Approximately 250 msec.
First Reading Upon Power Up	Approximately 2 seconds
Cable	1. 9.8ft (3M) 22AWB*4C + F + Jacket black PUR cable OD=5.0mm -40°C~+105°C
Sensor housing dimensions	0,59" (15mm) Diamete x 1,57" (40mm)
Housing	Sensor: Stainless steel, hermetically sealed, exceeds NEMA 4X, IP67. Teflon housing for thermal stability and protection. Transmitter: Heavy Duty SS, NEMA, IP54.

Weight total assembly	7,7oz (220g)
Emissivity Setting	0.90
Power	12 or 24VDC ( $\pm 10\%$ ). Shuts off when voltage is functionally low
Power Consumption	$\pm 10$ mA (without output signal device)
Loop Impedance	(4-20mA models) >500 $\Omega$
Clamp	2,36" (60mm) x 3,94" (100mm), max 0-1,4" (35mm) span, rubber pads



### Ordering Information

AutoSmart AGRI -  -

**Power:**

12 = 12VDC

24 = 24VDC

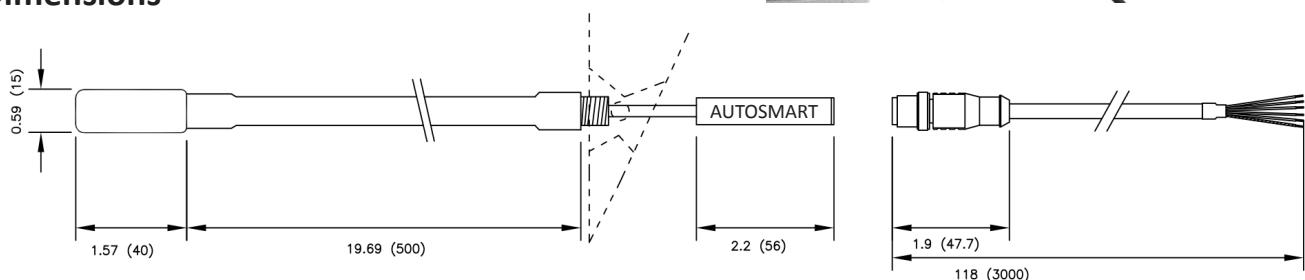
**Output:**

005 = 0-5V

010 = 0-10V

420 = 4-20mA

### Dimensions



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Specifications subject to change without notice

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