

## Installation instructions

# ACE sensor

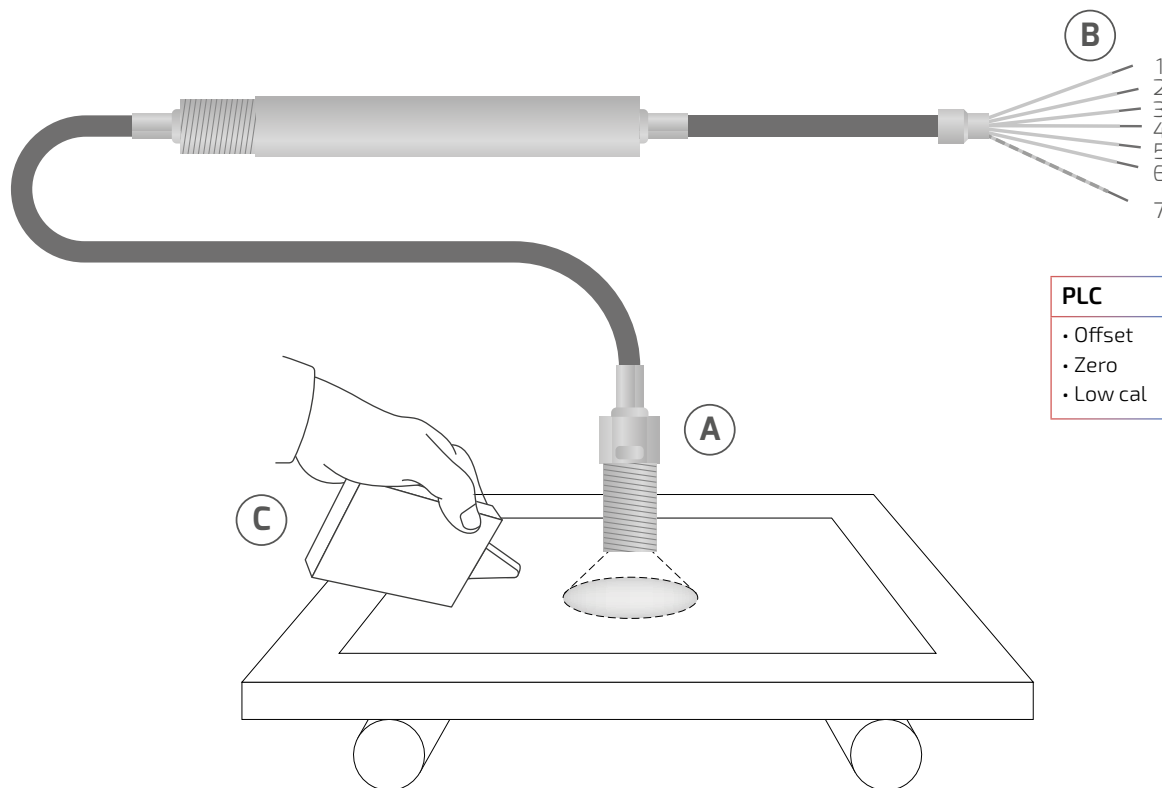


### The following procedure is recommended:

- A. Install the ACE as close as practical to view the target material to be measured.
- B. Wire the ACE to the controller, PLC, etc. in standard fashion (see PINOUT and WIRING DIAGRAM)
- C. Bring the process up to normal operating temperature and measure the actual temperature of the target material with the D501 handheld scanner, Infrared Thermometer or any other reliable reference.
- D. Allow sensor several minutes to acclimatise and reach steady state.
- E. If using a PID controller: adjust 'input offset', 'zero', 'low cal', on the readout device to match the reading of your reference.
- F. Installation Complete. (For OEM installations preset the same adjustments. Individual calibration is not required.)

### Wiring diagram

PINOUT		
Pin	Color	Function
1	Blue	UART RX (optional)
2	White	UART TX (optional)
3	Black	Signal ground/Common
4	Green	Current signal OUT
5	Orange	Voltage signal OUT
6	Red	+12-30VDC power supply
7	Black (thick)	Cable shield, connect to ground



MA-2026-01-EN-V0

## Technical specifications

# ACE sensor



### Temperature

Measuring range	0-100°C or 0-250°C
Accuracy	± 1,0°C up to 250°C
Ambient temperature	0-100°C (recommended 0-70°C for optimal performance)
Resolution	0.005°C
Repeatability error	< 0.1°C
Interchangeability error	± 0.3°C
Time constant	70ms for digital output signal 100ms for analogue output signal
Sample rate	Max 50Hz (software adjustable)

### Input power

Supply voltage	12-30 VDC
Power consumption	< 0,3W
Reverse polarity protection	Yes

### Output power

Current output	4 - 20mA
Voltage output	0 - 10V
Digital output	UART/RS232

### Dimensions

