

TECHNICAL DATA SHEET

WIRELESS ANALOG GAUGE READER



ORDER CODE: AGR-100
PRODUCT CATEGORY: SENSORS

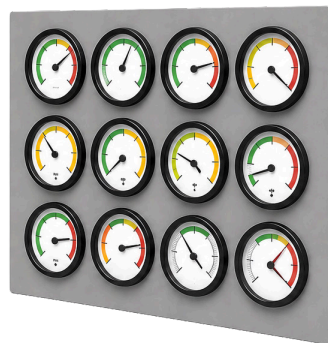
Your Analog Gauges, Translated into Digital Intelligence.

PRODUCT OVERVIEW

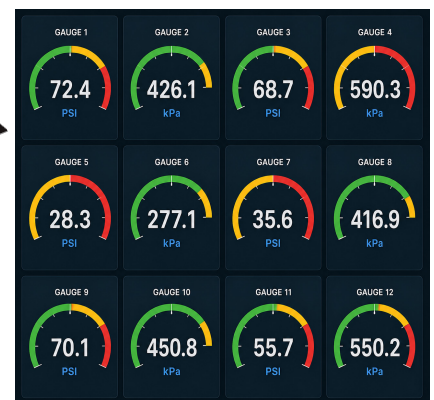
General Description

E4A's Analog Gauge Reader represents a new generation of industrial sensing technology, bringing true autonomy to the monitoring of analog gauges. Built on Bluetooth® 5.0 connectivity and powered by advanced edge AI, the AGR-100 uses an integrated camera system to visually interpret gauge readings without manual intervention. This enables fast, intelligent, and highly reliable data capture across demanding environments.

The AGR-100's ability to read and analyze multiple gauges from a single device enhances deployment efficiency and cost-effectiveness at scale. Powered by E4A's rechargeable BP-100R battery pack, the AGR-100 is engineered for uninterrupted, long-term operation, delivering a seamless, maintenance-light solution for modern industrial automation.



View Your Analog Gauge Readings from Anywhere!



TECHNICAL SPECIFICATIONS

Power Supply

Main Power	BP-100R
	Rechargeable Battery Pack
Operating Voltage	2.6VDC to 4.2VDC
Maximum Capacity	6800mAh
Current Consumption	48µA, 10 min. reporting interval

Operating Specifications

Operating Temperature	-20°C to +60°C
Storage Temperature	-20°C to +70°C (battery installed)
	-20°C to +70°C (without battery)
Permissible Humidity	20-85% (operating and storage)
Ingress Protection Rating	IP30
Pollution Degree	2
Altitude	2000m

Camera Specifications

Video Capture Resolution	1080p
Frame Rate	30fps@1080P
	60fps@720p
	100fps@480P
Maximum Focal Length	50mm
Product Dimensions	39mm x 39mm x 86mm
Connectivity	USB
Cable Length	2m

Physical Characteristics

Housing Material	Flame Retardant Polycarbonate/ABS
Physical Dimensions	Height: 118mm / 4.6inch
	Width: 105mm / 4.1inch
	Depth: 82.5mm / 3.2inch
Weight	410g (without battery inserted)
	622g (with battery inserted)
Mounting	Magnetic mount

Communications

Wireless Module	2.4GHz Bluetooth® 5 transceiver
Communication Range	200m line of sight
Communication Interval	Minimum 5min. reporting interval

Security

Encryption	AES 128-bit crypto accelerator
	ECC and RSA public key accelerator (PKA)
	SHA2 accelerator (full suite to SHA-512)
	True Random Number Generator (TRNG)

User Interface

Pushbuttons	3 pushbuttons (device pairing, unpairing, device reset, enabling and disabling device features)
Status LED	11 status LED's (red, green, orange)

SCAN HERE!



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OUR PARTNERS

