

AJL multichannel Gauges



DESCRIPTION

Use of probes with strain-gauge output, for all types of instrumentation.

Makes already installed probes connected or facilitates installation for new installations.

Each sensor is autonomous; it doesn't need another box nor a sending station

APPLICATIONS

All types of instrumentation.

SENSOR CHARACTERISTICS

DATA RECORDING

Local measurement interval	1 second (via Bluetooth application)
Data reporting interval	60 minutes (configurable)
Reported data	Voltage of connected probes Case temperature Battery voltage

GAUGE BRIDGE SENSOR

Measurement principle	Quarter, half or full bridge
Bridge power supply	3,3V, 10V or 24V
Resolution	< 0,0015%

TEMPERATURE SENSOR INSIDE THE HOUSING

Measuring principle	NTC
Measuring range	-55 ... +125°C
Resolution	0,6°C (-5 ... +50°C)

LONG DISTANCE RADIO

Radio technology	LoRaWAN
Security	AES-128 data encryption
Supported features	LoRa private or operated, OTAA
Radio range	Up to 15 km
Transmitted power	Up to 20 dBm (adaptive)
Receiver sensitivity	-142 dBm
Frequency band	868 MHz (EU), 915MHz (US, AS, AU)
Antenna	Internal or external to the housing

LOCAL RADIO

Radio technology	Bluetooth Low Energy
Radio range	Up to 40m
Transmitted power	Up to 4 dBm
Receiver sensitivity	-96 dBm
Frequency band	2.4 GHz ISM
Antenna	Internal to the box

POWER SUPPLY

Battery type	Lithium-Ion	
Consumption	< 1mW	
Power consumption	Measurement period	Duration (up to)
	1 hour	5 years

* Indicative duration, for use in the conditions of use and according to number of connected sensors, their characteristics and their validation by our engineering department

SENSOR

Operating temperature	-30 ... +85°C
Dimension	135 x 135 x 60 mm
Weight	350g
Internal memory	1024 measurements
Case	Polycarbonate (weather, UV and impact resistant) Decompressor against condensation IP65, IK07 Fixing brackets

ORDER REFERENCES

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AJL-01-1	Full bridge sensor with 1 entry
AJL-01-2	Half bridge sensor with 1 entry
AJL-01-4	Quarter bridge sensor with 1 entry
AJL-02-1	Full bridge sensor with 2 entries
AJL-02-2	Half bridge sensor with 2 entries
AJL-02-4	Quarter bridge sensor with 2 entries
AJL-03-1	Full bridge sensor with 3 entries
AJL-03-2	Half bridge sensor with 3 entries
AJL-03-4	Quarter bridge sensor with 3 entries
AJL-04-1	Full bridge sensor with 4 entries
AJL-04-2	Half bridge sensor with 4 entries
AJL-04-4	Quarter bridge sensor with 4 entries

Other options : contact us

WARNINGS

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In addition, devices are indications and decision aids and cannot be used in alarm or critical applications.

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