Overview

- Battery-Powered Flexibility: Operates entirely on internal batteries (3 x 14Ah) with up to 5 years of lifetime, depending on configuration. No external power source required.
- Versatile Sensor Support: Compatible with I2C, 4-20mA, and 0-10V inputs for diverse industrial applications. Internal pressure sensor option.
- Wireless and Local Communication: Features Bluetooth, MicroUSB, and connectivity options for 2G, and 4G LTE.
- Multi-Protocol Support: Includes Modbus RTU, Modbus TCP/IP, MQTT, and FTP for seamless data transmission and integration.
- Rugged Design: IP68 protection and operational capabilities in harsh environments (-25°C to +60°C) ensure reliability and durability.

Characteristics

General

Power supply:	Internal 3 x 14Ah batteries
Battery Life:	Up to 5 years (configuration dependent)
Real-Time Clock:	Yes, for precise timestamping

Specifications

CPU:	Cortex M4
Flash:	8 MB, up to 5 years storage.
2G:	850/900/1800/1900 MHz
4G LTE:	B1/B2/B3/B4/B5/B7/B8/B12/ B13/B18/B19/B20/ B25/B26/ B28/B66/ B34/ B38/B39/B40/B41

Interfaces

RS485:	Up to 1.2 km, speed up to 57600 bps
USB:	Type B, ver. 2.0
Bluetooth:	up to 5.0

Digital inputs

Amount:	Up to 2
Input type:	Dry contact 3.3V (3.3 uA, and 0.6mA and 4mA)
Min. pulse period:	50 ms
Min. pulse duration:	20 ms
Broken line detection:	Yes

Analog inputs

Amount:	Up to 2
Purpose:	Measuring pressure, temperature or level
Input type:	4-20mA, 0-5V, 0-10V, I2C 3.6V

Internal pressure sensor:	0-20 bar, ±0.25%FS, G1/4 male
Frequency of sampling data	1min – 24hour

Supported protocols

Modbus RTU, Modbus TCP/IP, MQTT, FTP (server/client)

Working conditions

Working temperature: -25°C to +60°C
Storage temperature: -40°C to +70°C
Humidity range: 5 to 95% (non-condensing)

Regulatory approvals

EN 55022:2000+A1+AC:2002+A2:2003
EN 55024:2000+A1:2003+A2:2003
IEC 61000-4-2+A1+A2:2002
IEC 61000-4-3+A1:2004
IEC 61000-4-4:2005
IEC 61000-4-5:2002+A1:2003
IEC 61000-4-6:2002+A1:2003
IEC 60068-2-78

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Physical characteristics

Dimensions:	220mm x 120mm x 50mm
Material:	ABS
Protection rating:	IP68 or IP65
Mounting:	Wall

Other features

Local Activation:	External magnetic field or MicroUSB
Local Communication:	Bluetooth, Micro USB

Made in the EU

Ordering code

MODEL	Interface	Antenna	Bluetooth	Pulse inputs	Serial Interface	Sensor type	Sensor type	Protection
702.058	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**

0 – None
1 – 2G
6 – 4G LTE
1 – Internal
2 – External (not included)
0 – None
1 – Yes
0 – None
1 – 1
2 – 2
0 – None
1 – RS485
0 – None
1 – 4-20mA
2 – 0-5V
3 – 0-10V
7 – I2C 3,6V
8 – Internal pressure sensor
0 – None
1 – 4-20mA
2 – 0-5V
3 – 0-10V
7 – I2C 3,6V
1 – IP68
2 – IP65

Example:
702.058.62120111   SPC-31 with 4G LTE + External Antenna (not included) + Bluetooth + 2x Pulse inputs + 2x4-20mA AI + IP68 protection