



ISOMAG

The friendly magmeter

DATA SHEET

MV255



CE

ISOIL 
I N D U S T R I A

INDEX

TECHNICAL DATA	3
OVERALL DIMENSIONS	4
OVERALL DIMENSIONS	6
MV255 EXPLODED LAYOUT	9
CONVERTER ACCESS	12
POWER SUPPLY-BATTERIES CONFIGURATION	16
4G NETWORK CONNECTION	20
ELECTRICAL CONNECTIONS	21
DIGITAL INPUT	23
DIGITAL OUTPUTS	23
AUXILIARY MODULE ANALOG INPUTS	24
OUTPUTS 4÷20 MA	26
AUXILIARY MODULE DIGITAL INPUTS/ OUTPUTS	27
USER INTERFACE	28
MAIN PAGES VISUALIZATION	29
FUNCTIONS MENU	30
MEASUREMENT SETTINGS	36
USER INTERFACE	37
DATA LOGGER	38
ACCURACY	39
MI-001	40
HOW TO ORDER	43

TECHNICAL DATA

OVERALL FEATURES

Suitable For	☐ All the ISOMAG® sensors
Minimum Conductivity	☐ 5 µS/cm
Altitude	☐ -200 m up to 4000 m
Ambient Temperature	☐ -20... +60°C / -4... +140 °F - Aluminium housing ☐ -10... +50°C / -4... +104 °F - Reinforced Nylon
Humidity Range	☐ 0÷100%

STANDARD FEATURES

Version	☐ Compact ☐ Separate
Housing materials	☐ Painted Aluminium die casting ☐ Nylon reinforced with 15% of fiber glass
Protection Rate	☐ IP 67
Power supply / consumption	☐ Network/Rechargeable Battery / Primary Lithium Batteries / Alkaline Batteries (50mW ... 4W)
Cable Gland	☐ N° 5 cable gland PG 11
Full Scale Value	☐ 0,4...10m/s
Dig. Input	☐ N ° 1, programmable (for example reset totalizers)
Data Storage	☐ F-Ram
Galvanic Insulation	☐ Digital inputs/outputs are galvanically insulated, output 4-20mA is not insulated.
Programming Plug In	☐ PC connection via USB (A/ USB MINI B type cable must be used)
Bidirectional	☐ YES
Diagnostic Funct.	☐ YES
Empty Pipe Detect.	☐ YES
Communication Ports	☐ Modem 4G
Data Logger	☐ MicroSD Memory Card 4 GBytes and RTC (Real Time Clock)
CE Certificate	☐ YES

OPTIONAL FEATURES

(CHECK HOW TO ORDER, AT LAST PAGE, FOR MORE DETAILS)

Protection Rate	☐ IP 68
Conn. Sensor Cable	☐ CABLE C015-C016
LCD Display	☐ 128x64 pixel backlit graphic display (Main power version only), with 3 keys for programming
Outputs: Pulses/ Alarm	☐ N°2...4 DIGITAL OUTPUT, Max 50 Hz, 100mA, 30 V (AC/DC) ☐ N°1...3 DIGITAL INPUT
Analog Outputs	☐ N ° 1 Analog Output 4 ... 20 mA
Pressure Input	☐ N ° 1 ... 2 Input from Pressure Sensor / N ° 1 ... 2 Temperature Input (PT100 / 500/1000)
Data Logger	☐ MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock) + BIV (Built In Verificator) ☐ MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock) + Meter Data (Real Time Converter & Sensor Data on SD Memory) ☐ MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock) + BIV + Meter Data ☐ MicroSD Memory Card 4 GBytes

ACCURACY

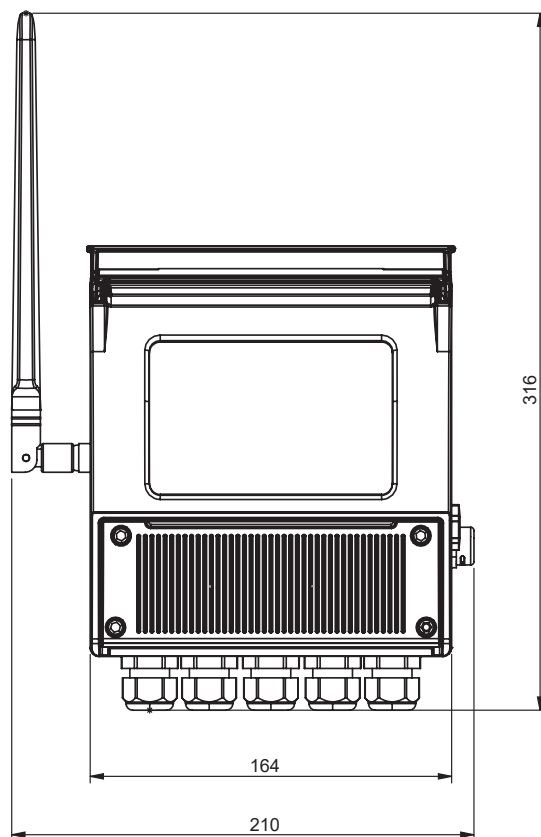
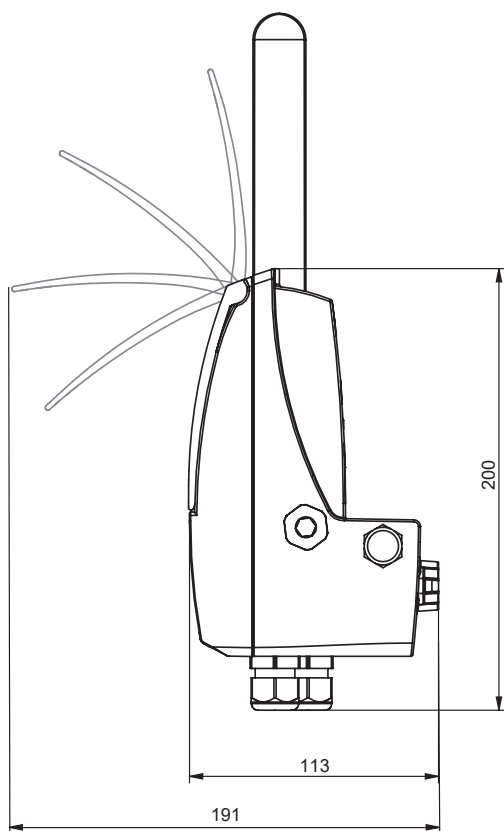
Accuracy (Whole System Converter+Sensor)	☐ See table below
---	--

OVERALL DIMENSIONS

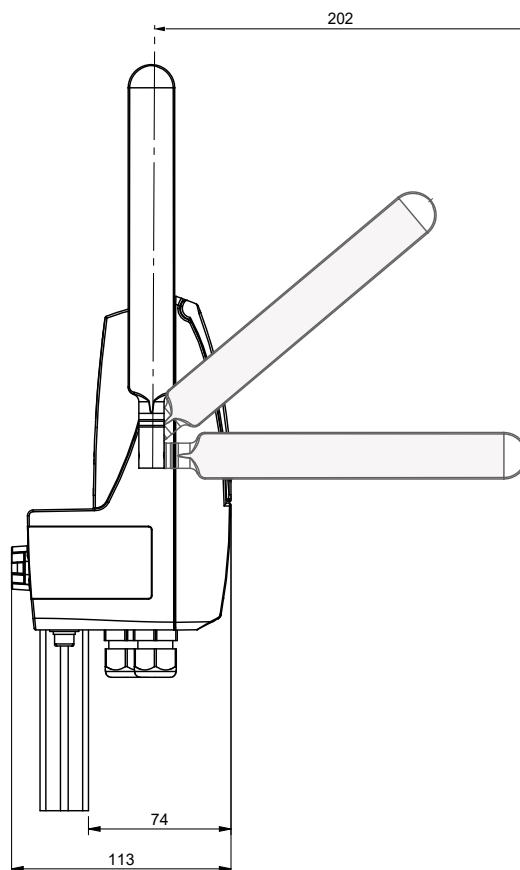
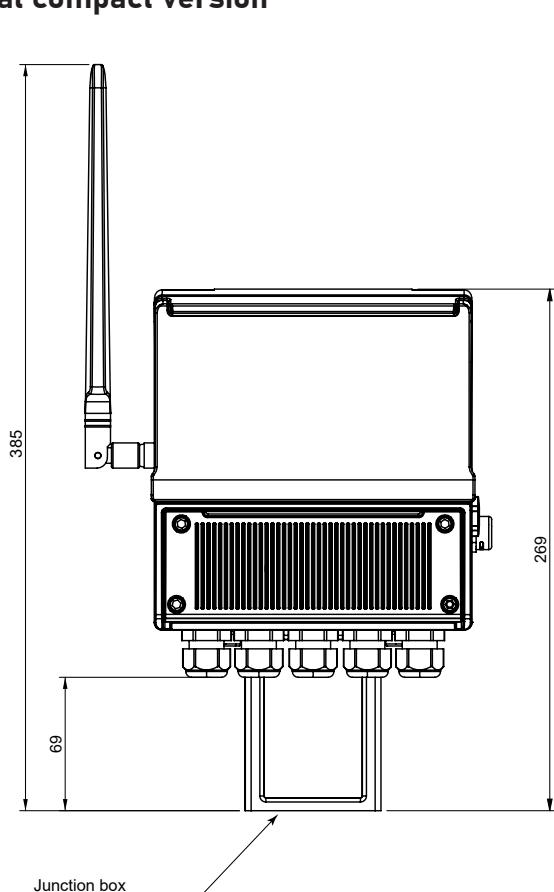
PA6 CASE (IP67)

ALLUMINIUM CASE (IP67-IP68)

Without battery pack

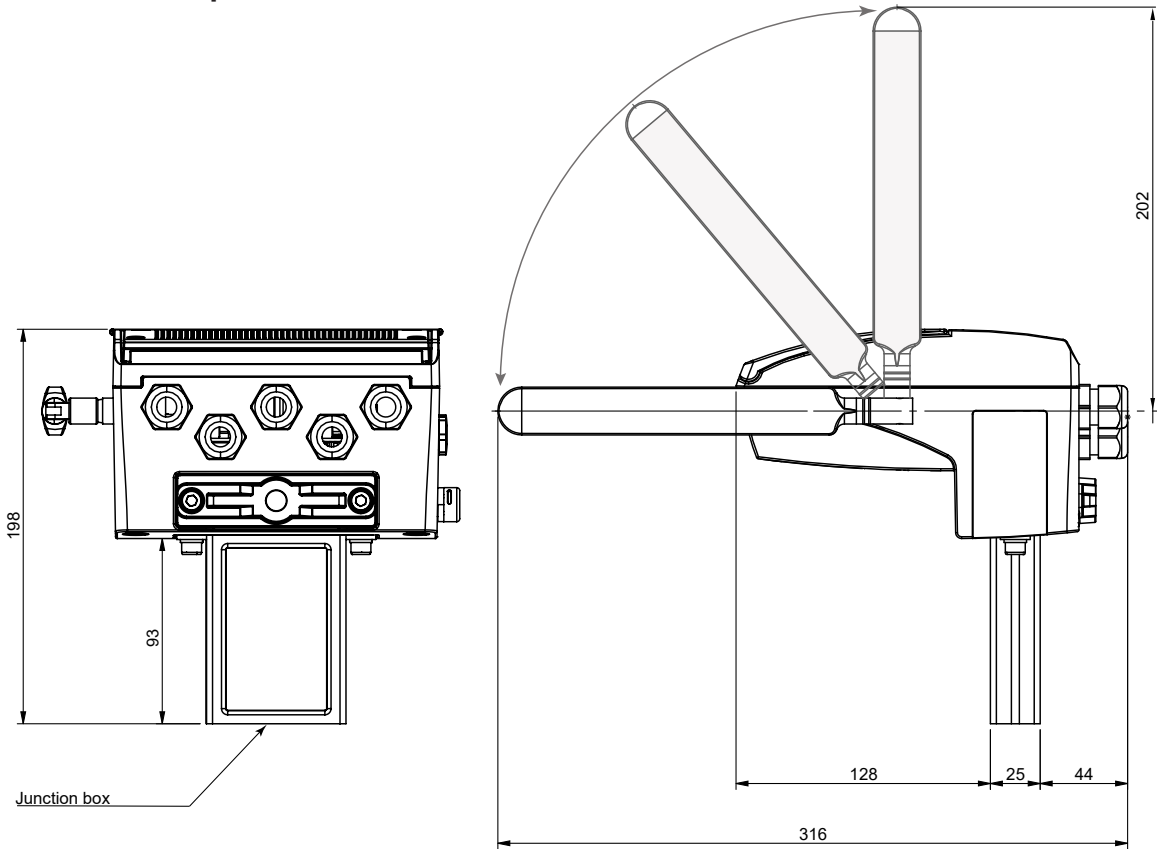


Vertical compact version

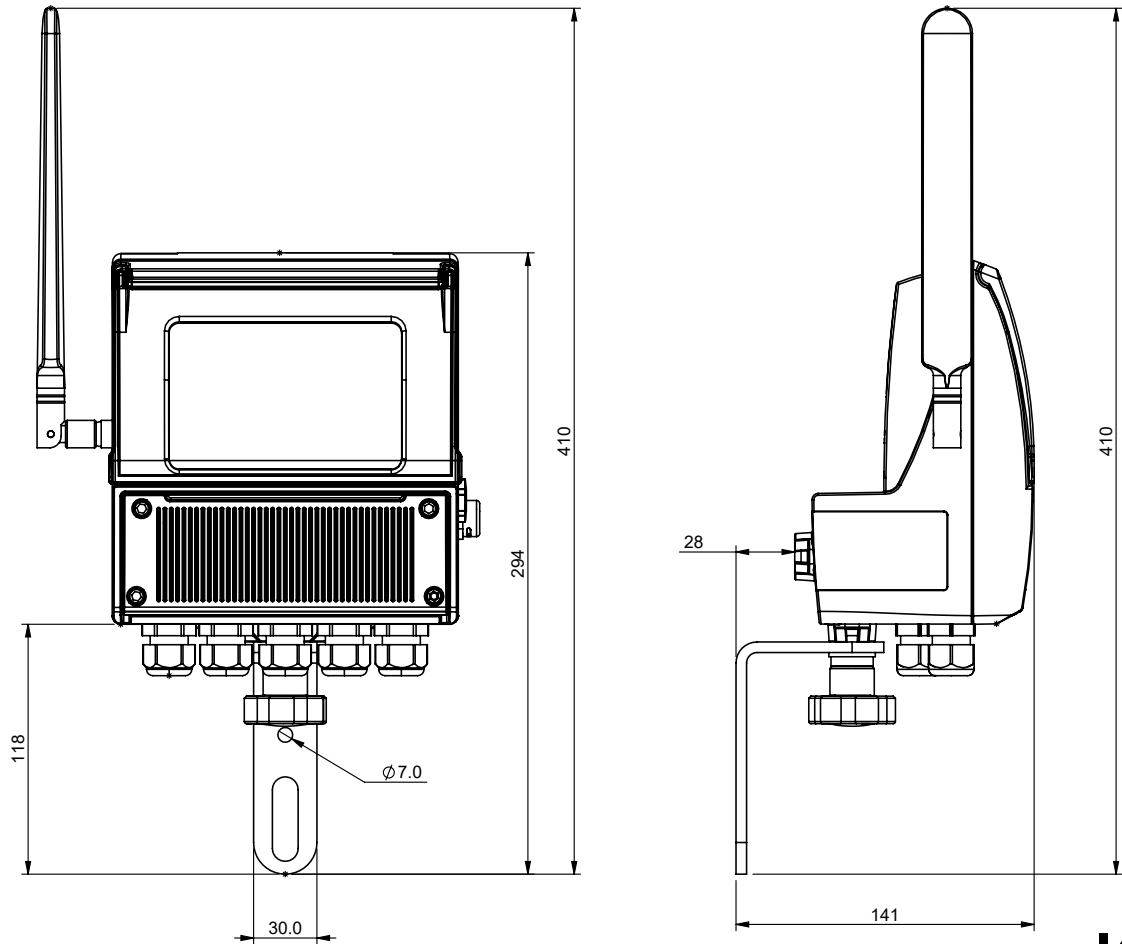


Horizontal compact version

The manufacturer guarantees only English text available on our web site www.isoil.com



Separate (wall) version

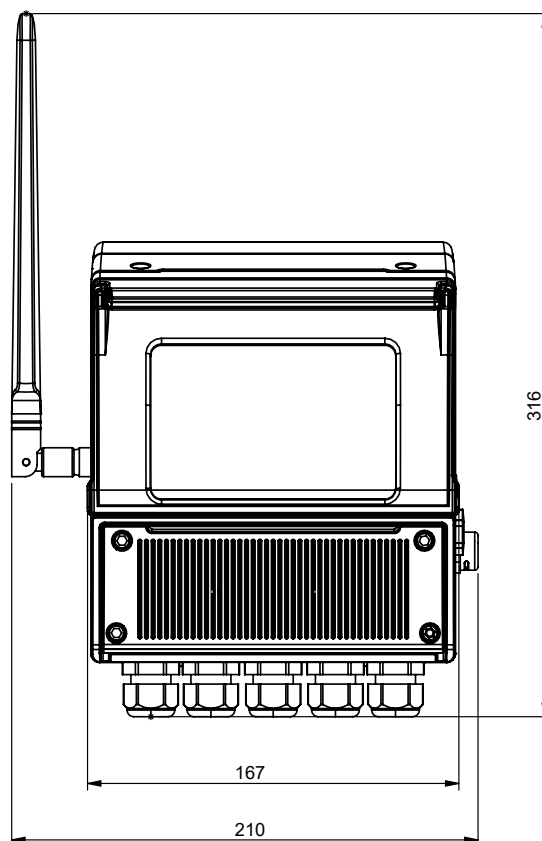
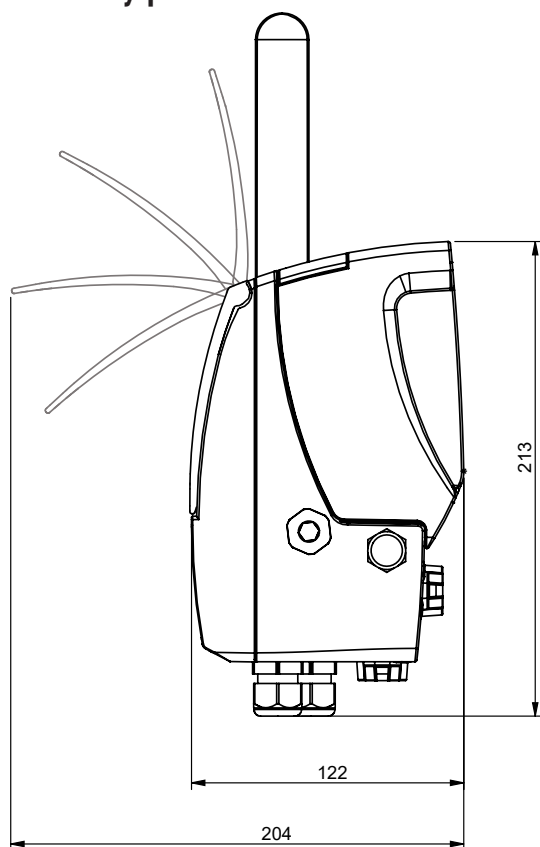


OVERALL DIMENSIONS

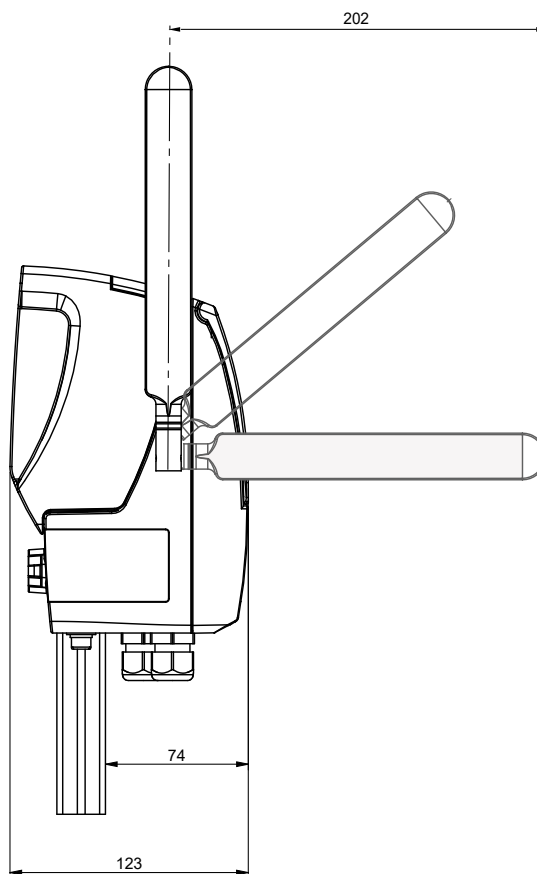
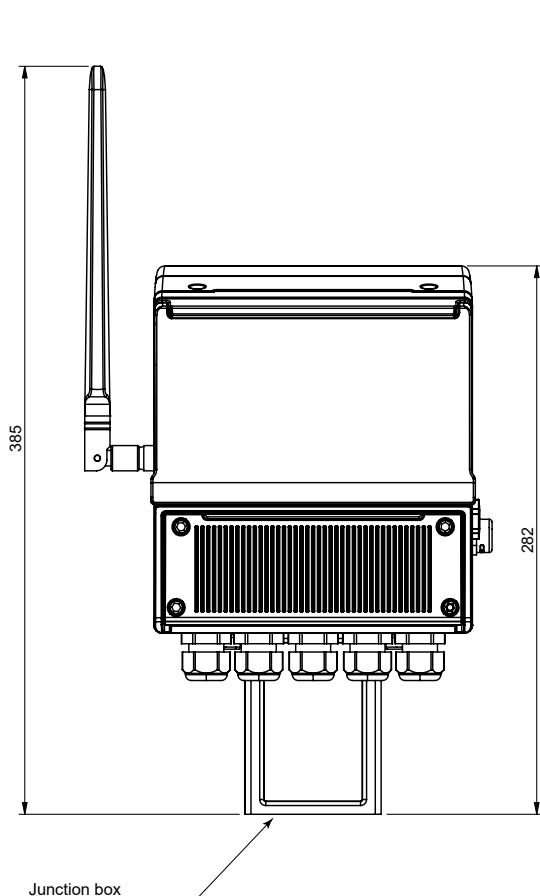
PA6 CASE (IP67)

ALLUMINIUM CASE (IP67-IP68)

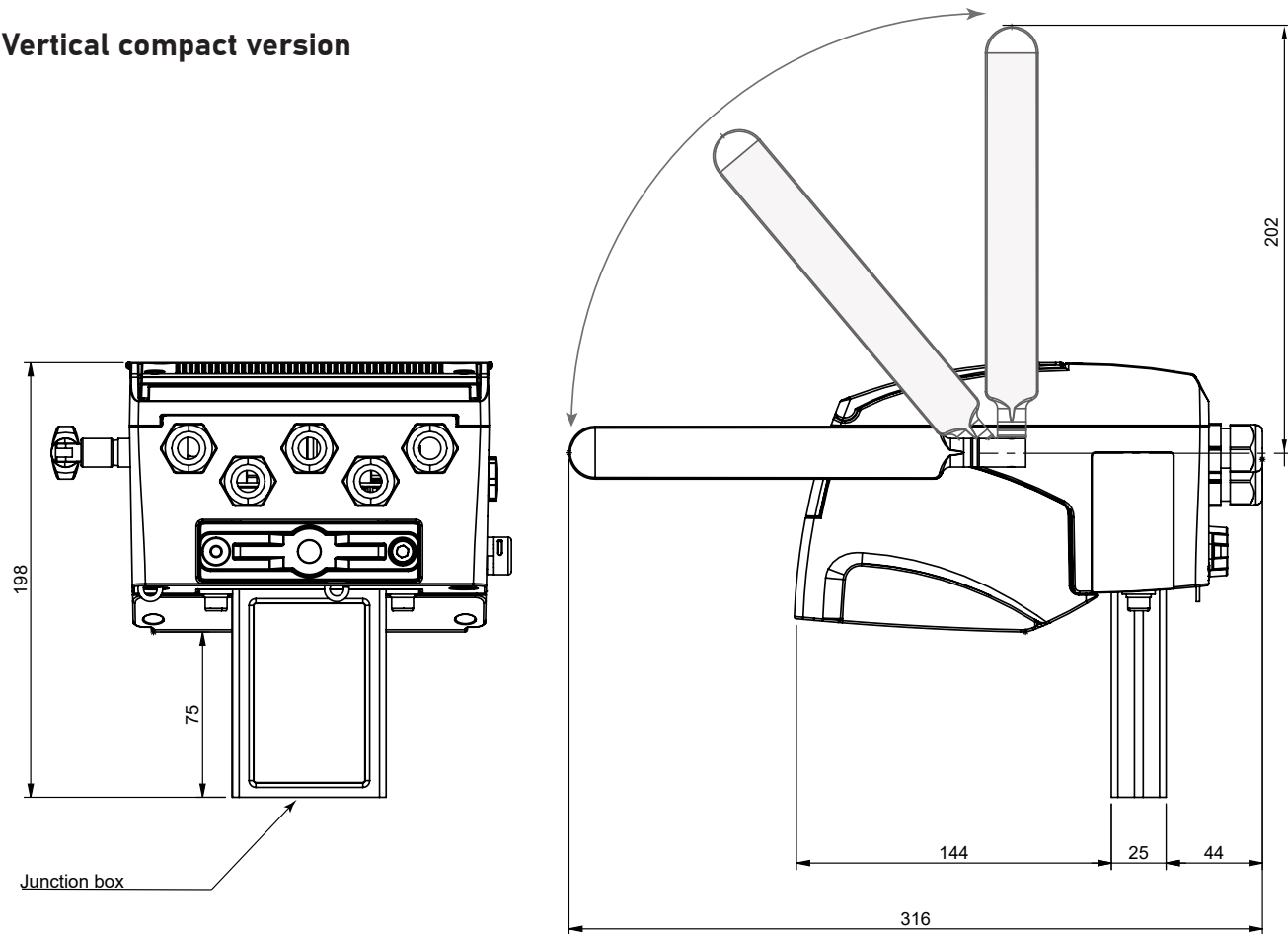
With battery pack



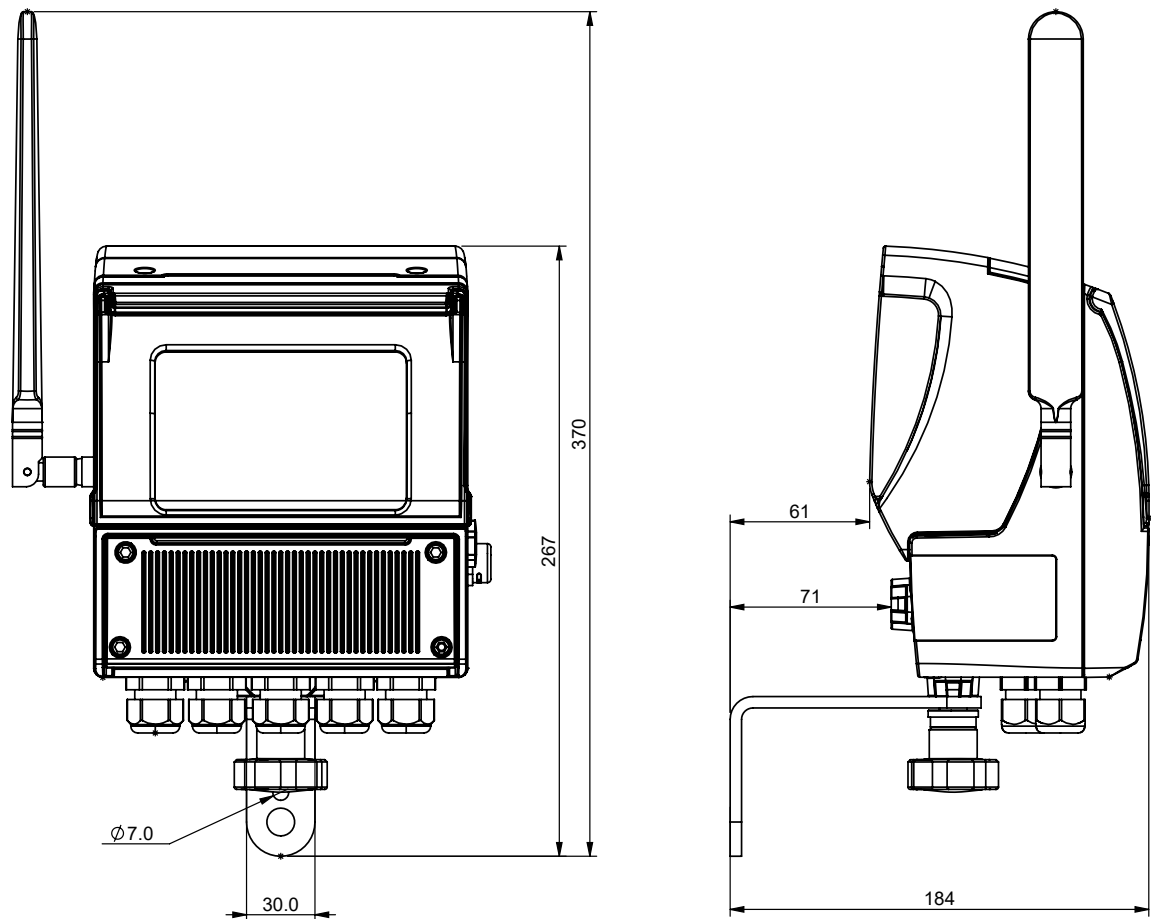
Horizontal compact version



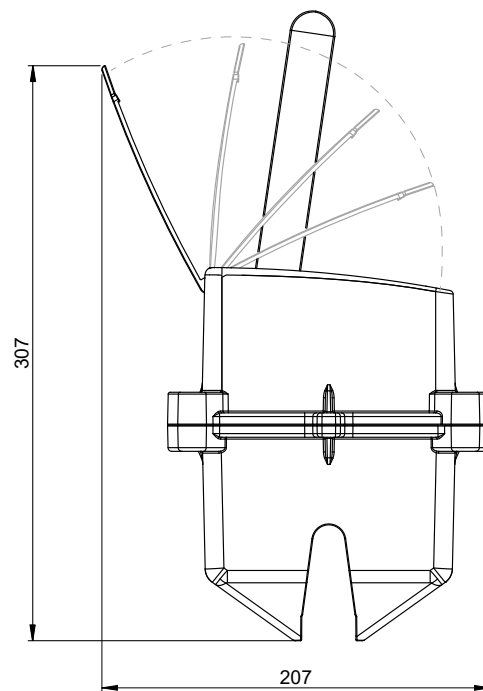
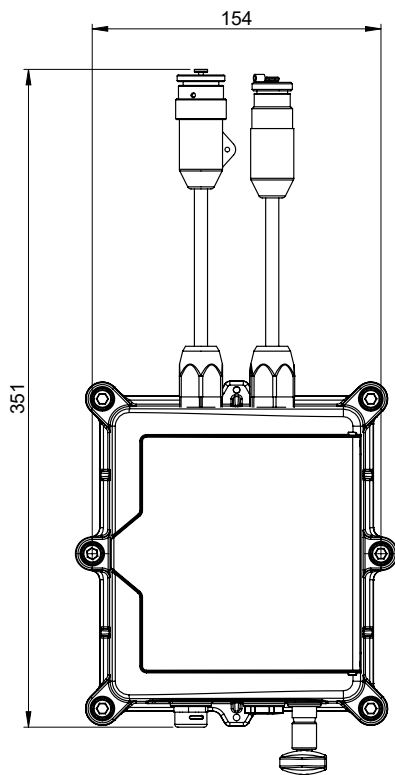
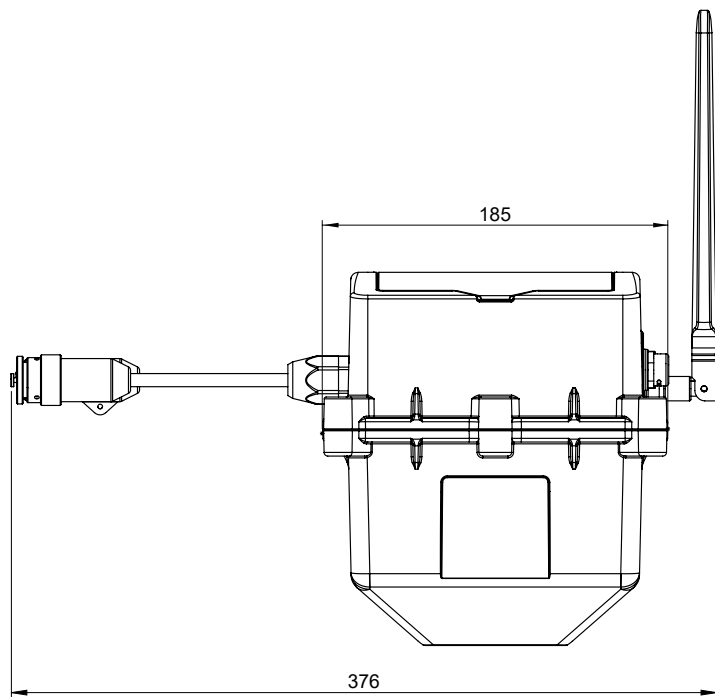
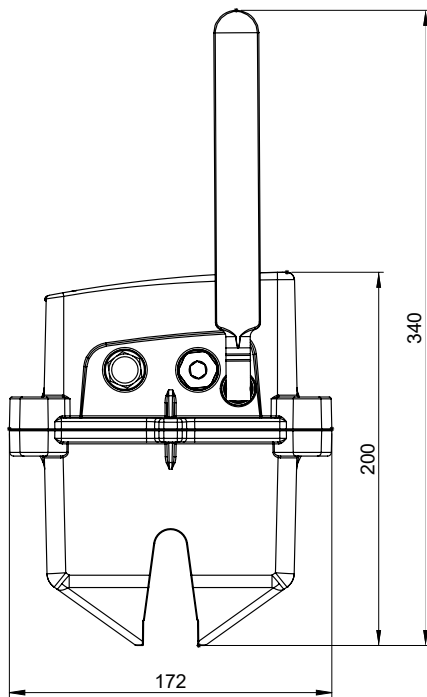
Vertical compact version



Separate (wall) version

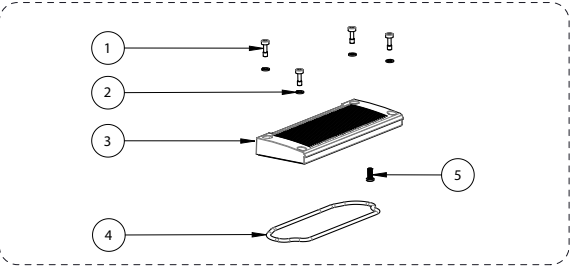


PA6 CASE (IP68)

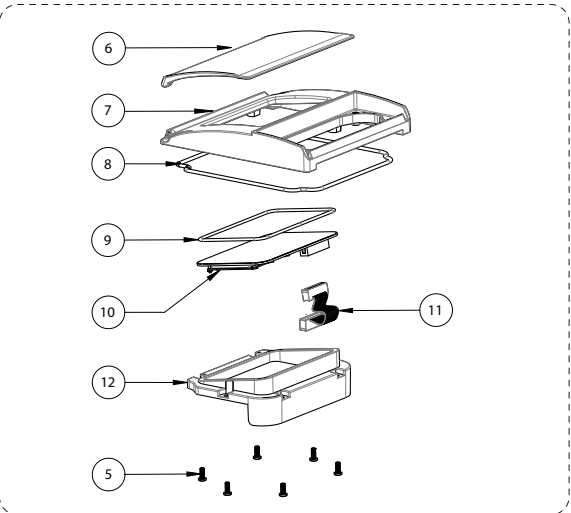


MV255 EXPLODED LAYOUT
PA6 CASE (IP67)
ALLUMINIUM CASE (IP67-IP68)

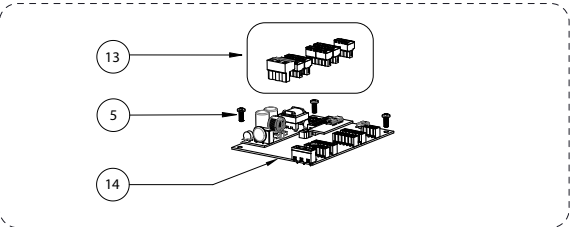
TERMINAL BLOCK COVER



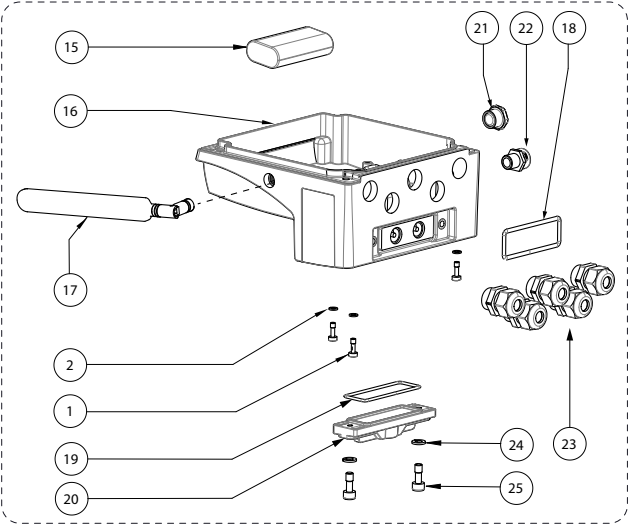
MAIN HOUSING COVER



PCB MV255

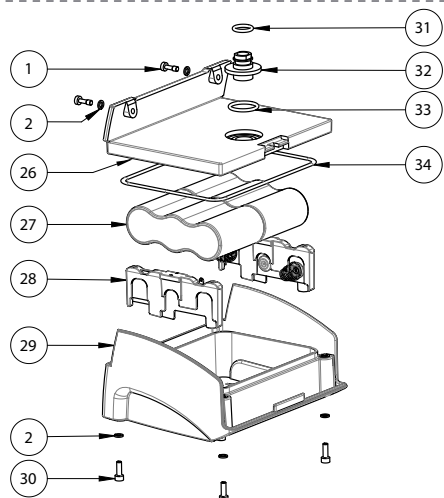


MAIN HOUSING



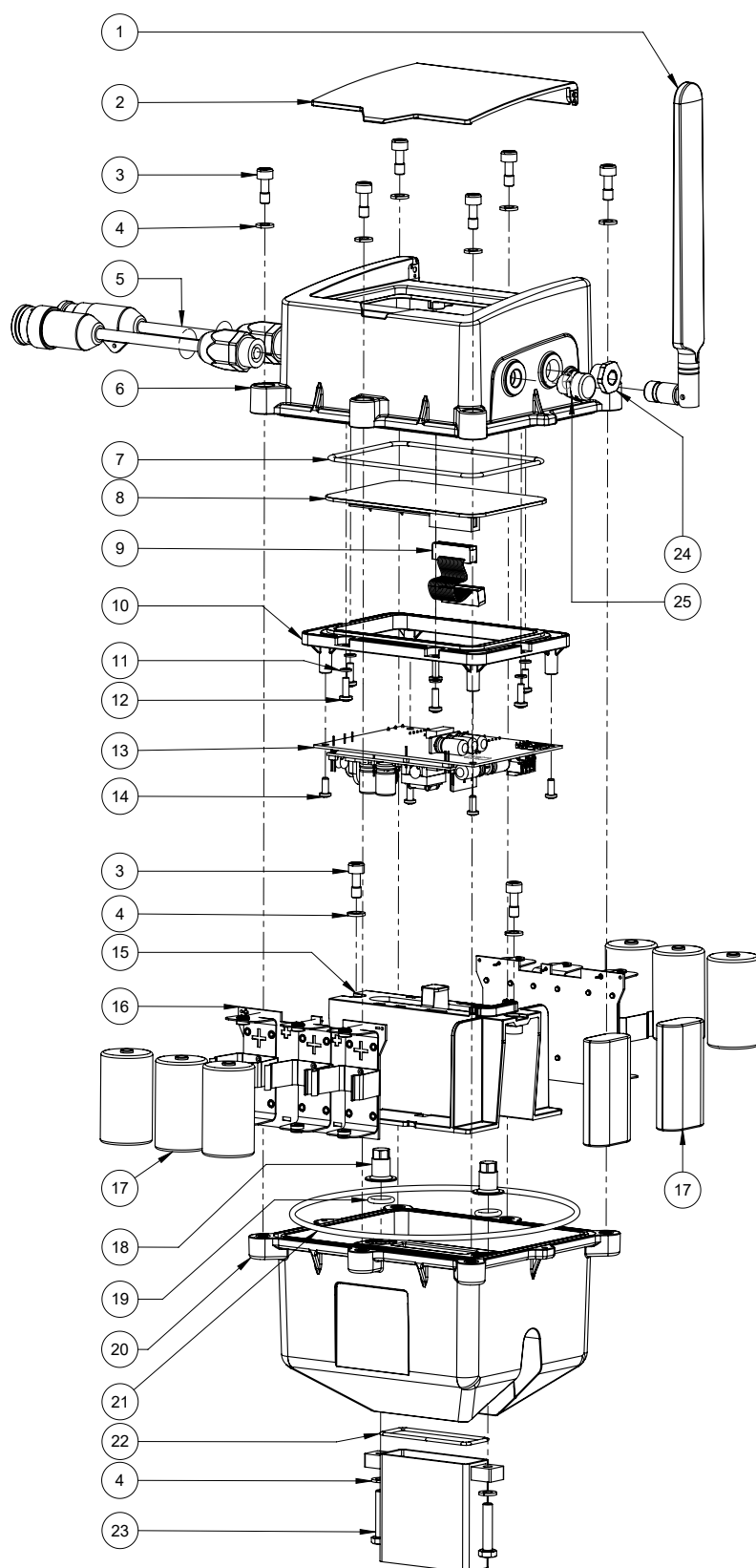
POS.	DESCRIPTION	
	PA6 VERSION	ALUMINIUM VERSION
1	SCREW M4x12	SCREW M5x12
2	GROWER WASHER Ø4	GROWER WASHER Ø5
3	TERMINAL BLOCK COVER	TERMINAL BLOCK COVER
4	O-RING-4400	
5	SELF-TAPPING SCREW 4x10	TRILOBO SCREW 4x10
6	PROTECTION COVER	
7	HOUSING COVER	HOUSING COVER
8	ORING-4700	
9	ORING-117x3	
10	DISPLAY	
11	FLAT CABLE DISPLAY	
12	FIXING DISPLAY FRAME (MATERIAL PA06)	
13	TERMINAL BLOCK SOLID WIRE: 26-16 AWG / 0.129-1.31 mm ² STRANDED WIRE: 26-16 AWG / 0.129-1.31 mm ² TORQUE: 3.0 Lb.In / 0.34 Nm	
14	PCB MV255	
15	RECHARGEABLE LITHIUM BATTERY	
16	MAIN HOUSING	MAIN HOUSING
17	4G ANTENNA 4G ANTENNA WITH CABLE OF 3m	
18	O-RING 2018 VITON	
19	O-RING-155	
20	VERSION CAP (MATERIAL PA06))	
21	PG9 CAP	
22	PRESSURE COMPENSATION PLUG	
23	PG11 CABLE GLAND CABLE DIAMETER: Ø5-Ø10mm	
24	GROWER WASHER Ø6	
25	SCREW M6x16	

BATTERIES HOUSING



POS.	DESCRIPTION	
	PA6 VERSION	ALUMINIUM VERSION
26	CAP BATTERY HOUSING PA6	
27	LITHIUM OR ALKALINE BATTERY	
28	SUPPORT CONTACTS ALKALINE BATTERIES MV	
29	BATTERY HOUSING PA6	
30	SCREW M4X12	
31	O-RING 2075	
32	SEAL BUSH	
33	O-RING 3081	
34	O-RING 4575	

PA6 CASE (IP68)



POS.	DESCRIPTION
1	ANTENNA
2	PROTECTION COVER
3	WORKED SCREW
4	GROWER Ø6
5	WIRED CONNECTORS
6	MAIN COVER
7	O-RING 117X3 (EPDM)
8	DISPLAY
9	FLAT CABLE
10	FRAME DISPLAY
11	GROWER Ø5
12	SCREW M4
13	PCB
14	SELF-TAPPING SCREW
15	BATTERY HOLDER
16	ALKALINE BATTERIES
17	LITHIUM/RECHARGEABLE BATTERIES
18	BLIND NUT
19	O-RING 115 11.91x2.62
20	FRAME
21	O-RING 4700
22	O-RING 155 NBR
23	SCREW M6 X 30
24	PG9 CAP
25	ANTICONDENSATION CAP

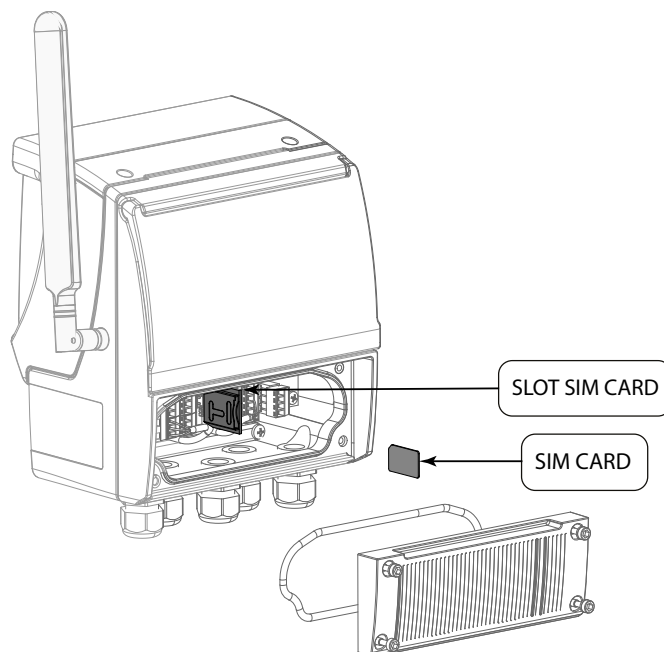
CONVERTER ACCESS

PA6 CASE (IP67)

ALLUMINIUM CASE (IP67-IP68)

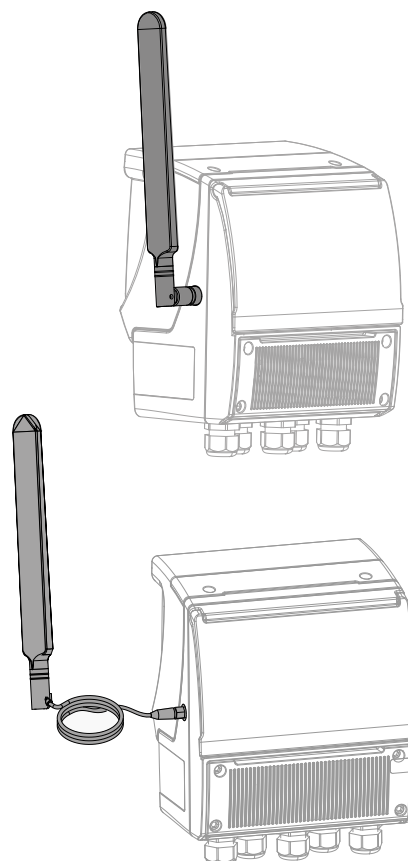
Slot SIM 3G

- ❑ MV255 is equipped with a modem for 3G/4G wireless communication. Utilizing GPRS technology and data packets transmitted through various layers of protocols and hardware devices.

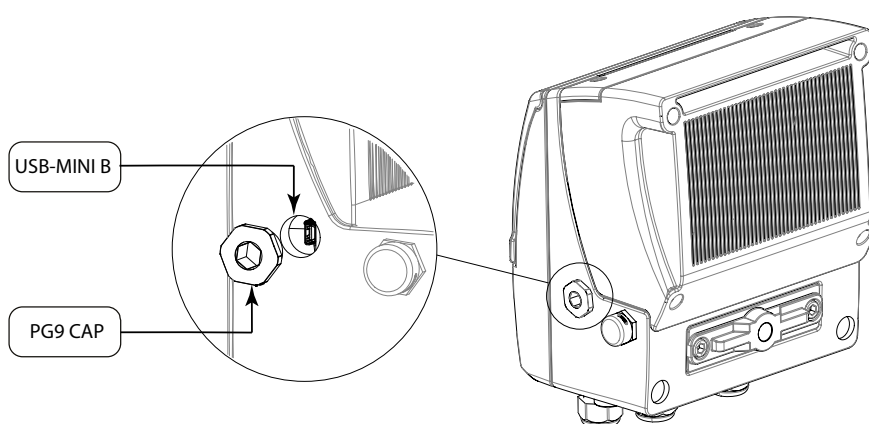


Antenna types

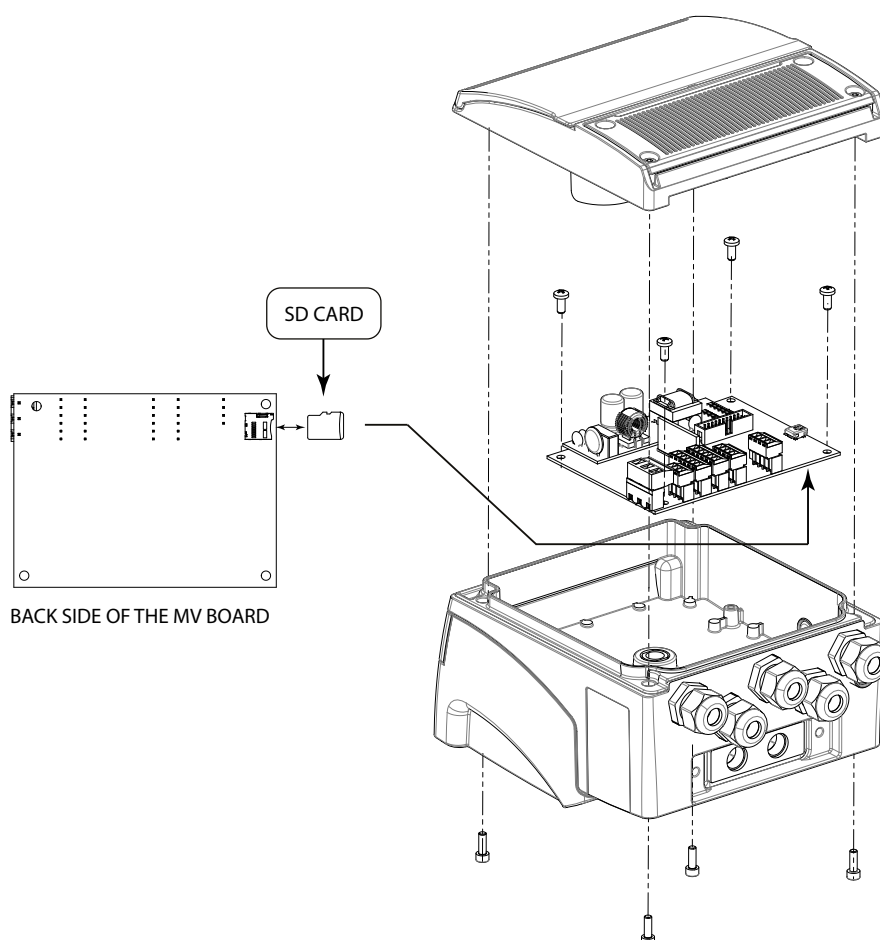
- ❑ It is possible to use two types of antennas depending on the place of installation of the instrument:
- ❑ 4G antenna installed directly on the housing;
- ❑ 4G Antenna connected to the converter housing with cable L= 3 meters.



USB connection



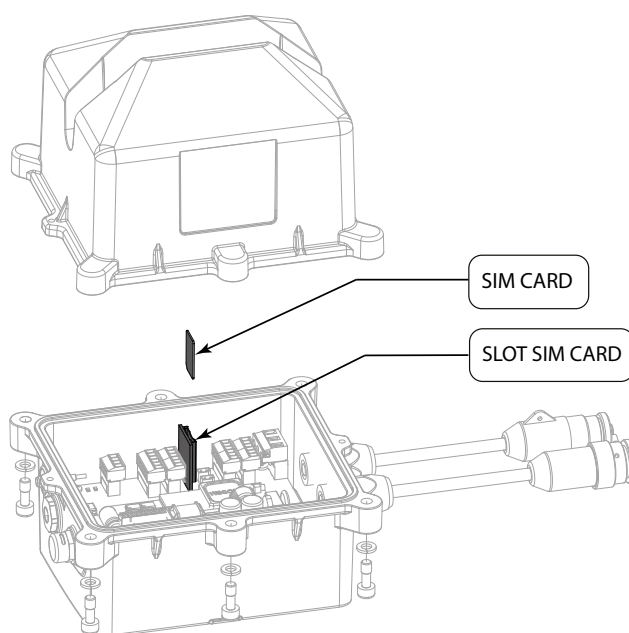
SD card



PA6 CASE (IP68)

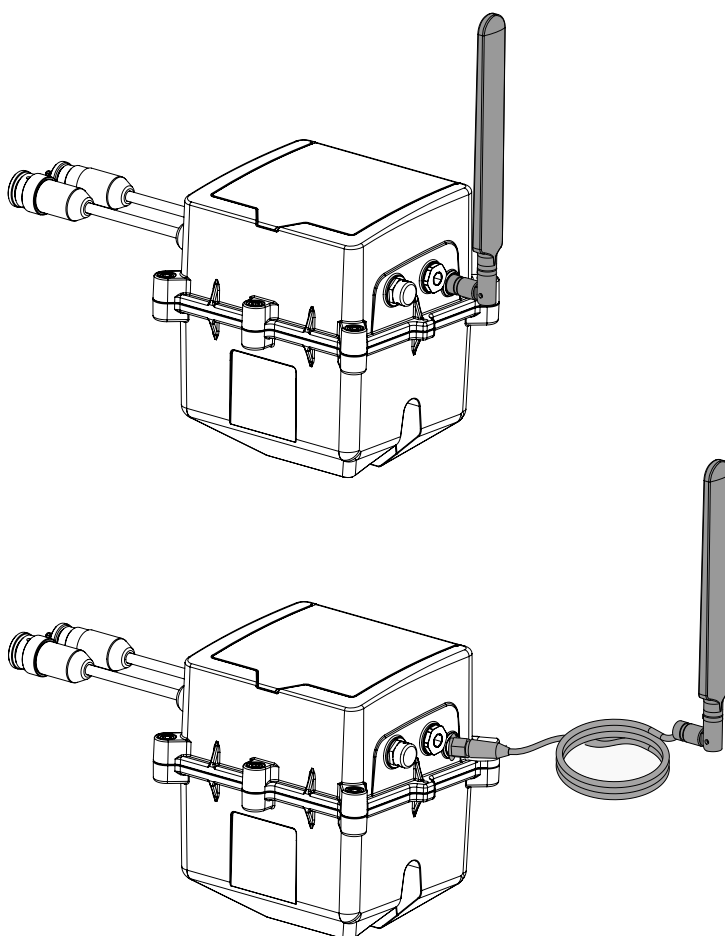
Slot SIM 3G

- ❑ MV255 is equipped with a modem for 3G/4G wireless communication. Utilizing GPRS technology and data packets transmitted through various layers of protocols and hardware devices.

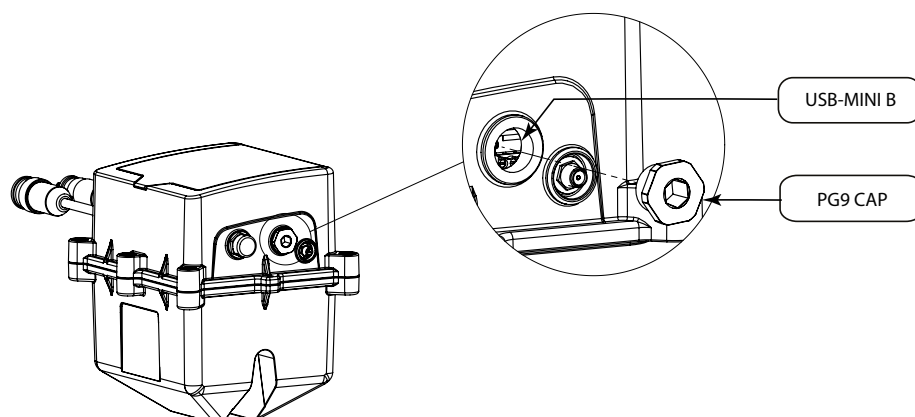


Antenna types

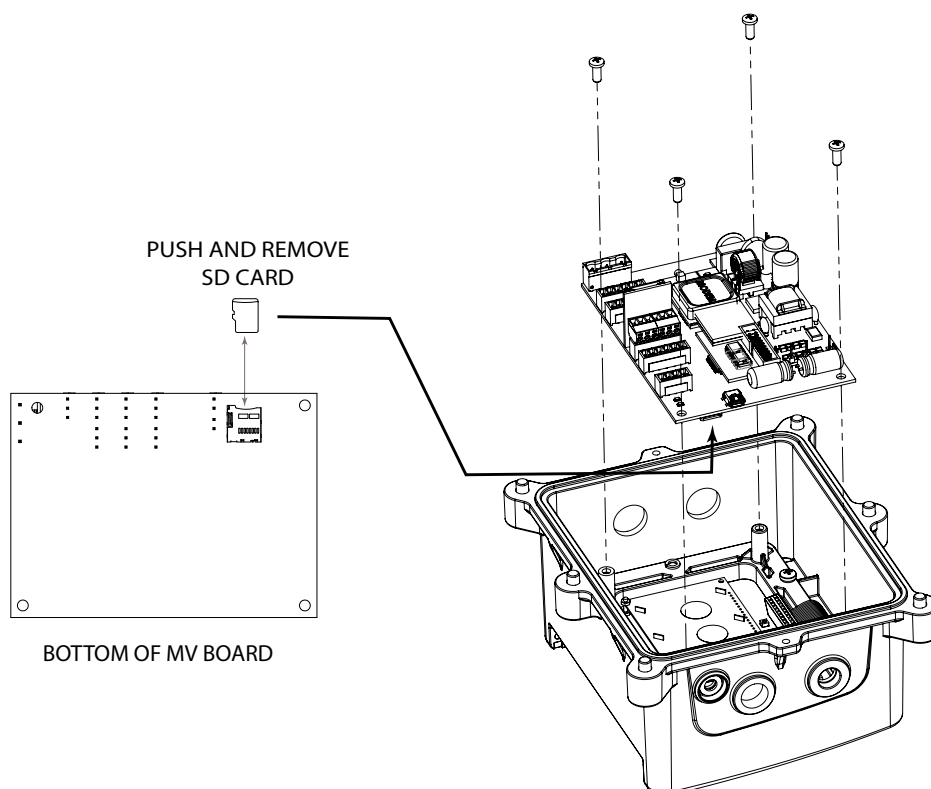
- ❑ It is possible to use two types of antennas depending on the place of installation of the instrument:
- ❑ 4G antenna installed directly on the housing;
- ❑ 4G Antenna connected to the converter housing with cable L= 3 meters.



USB connection



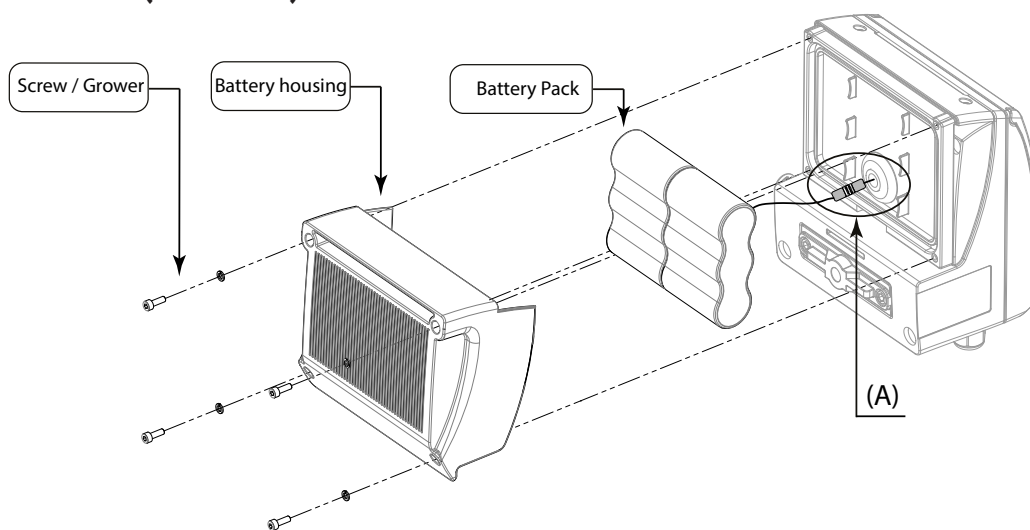
SD card



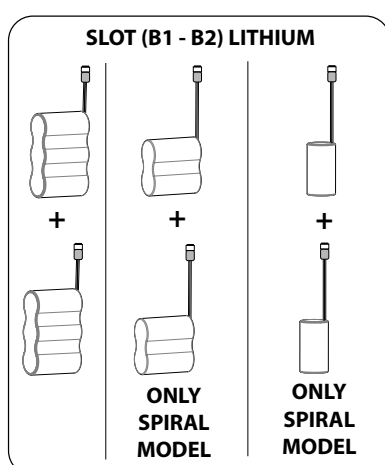
POWER SUPPLY-BATTERIES CONFIGURATION

PA6 CASE (IP67)

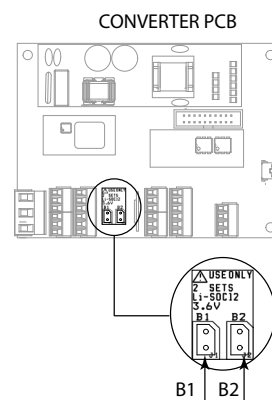
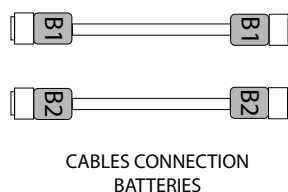
ALLUMINIUM CASE (IP67-IP68)



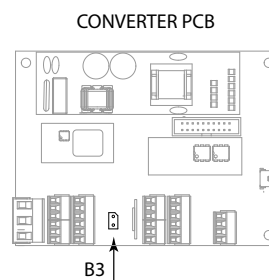
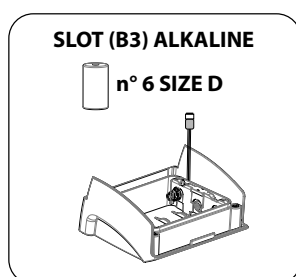
DETAIL (A) BATTERY CONNECTIONS CONVERTER PCB



LITHIUM BATTERIES

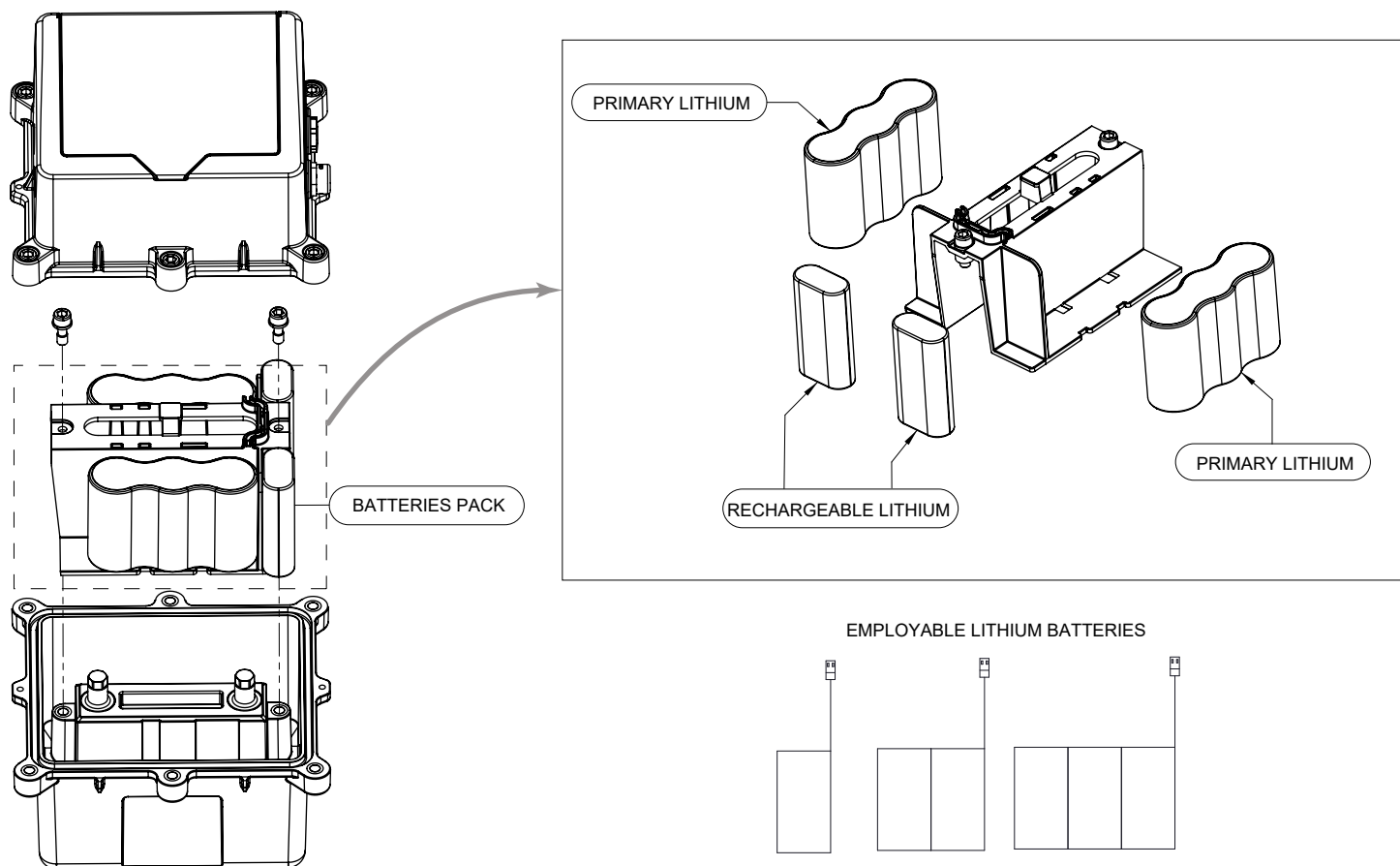


ALKALINE BATTERIES

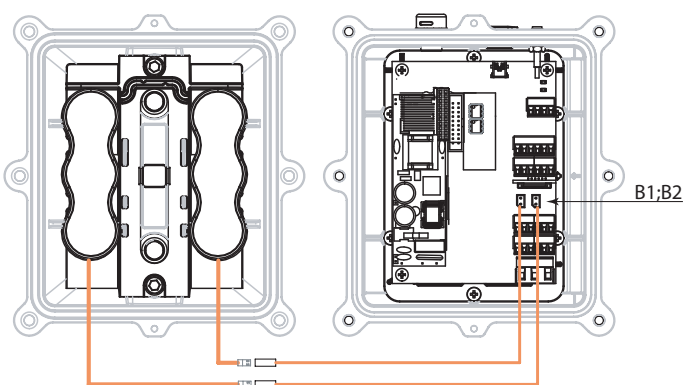


- ❑ The maximum number of batteries allowed in the various configurations is 6 size D batteries
- ❑ Alkaline batteries can also be purchased separately from third parties
- ❑ Lithium batteries are supplied exclusively by the manufacturer and can not be purchased separately from third parties. Furthermore, they are subject to special transport regulations based on the "Dangerous Goods Regulations, UN3090 and UN 3091". Special documentation is required to observe the regulations.

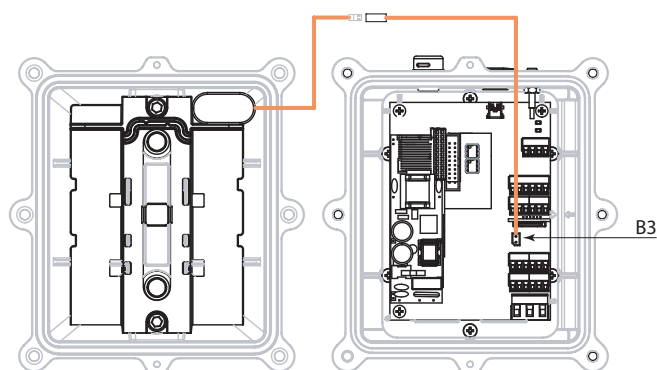
PA6 CASE (IP68) - LITHIUM BATTERIES



COLLEGAMENTI PILE LITIO PRIMARIO

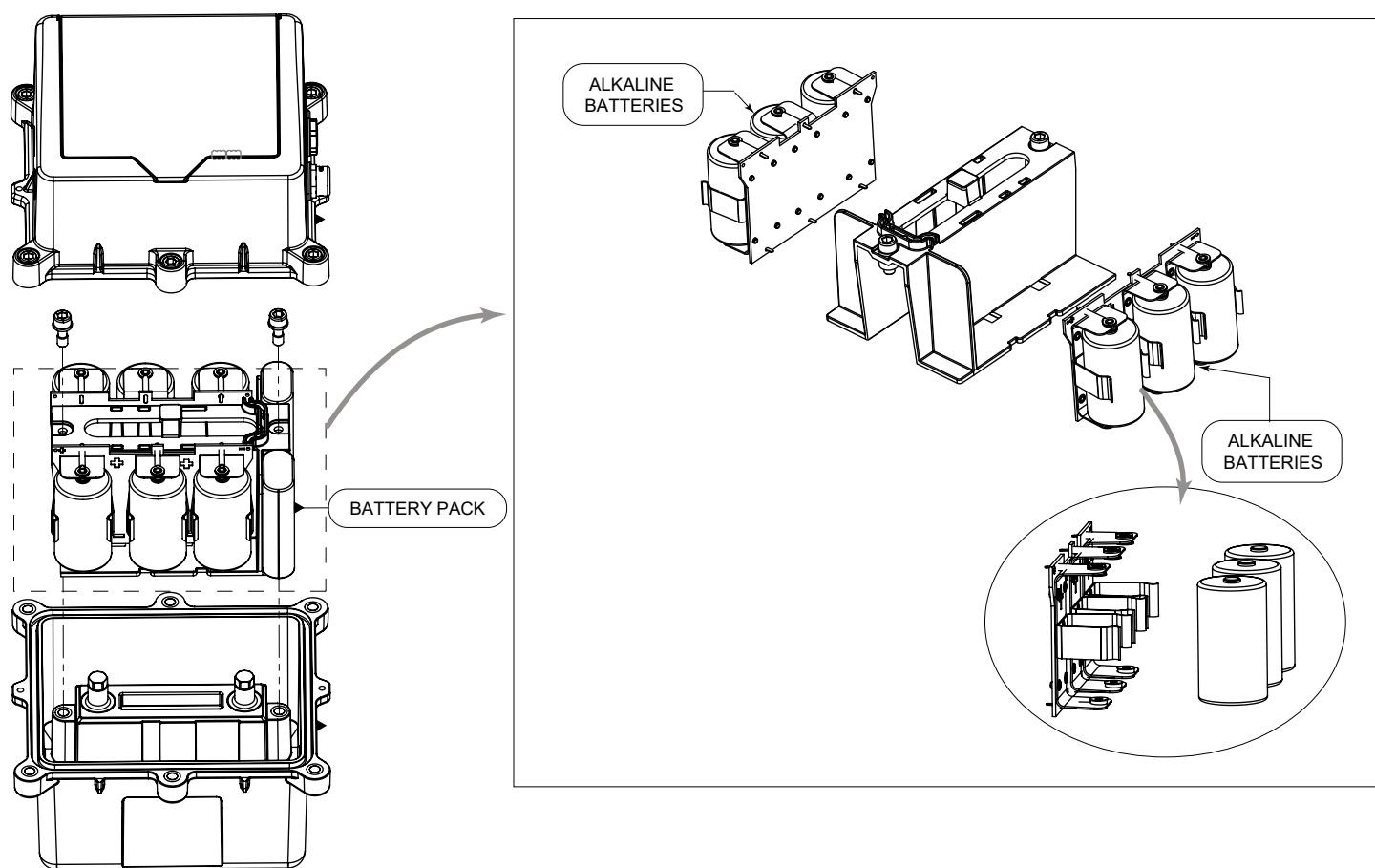


COLLEGAMENTO PILA LITIO RICARICABILE

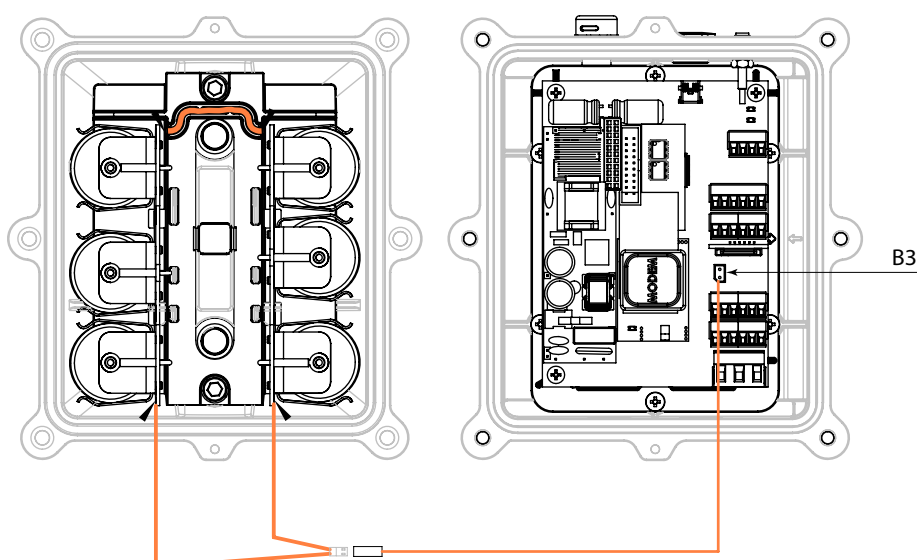


- ❑ The maximum number of batteries allowed in the various configurations is 6 size D batteries
- ❑ Lithium batteries are supplied exclusively by the manufacturer and can not be purchased separately from third parties. Furthermore, they are subject to special transport regulations based on the "Dangerous Goods Regulations, UN3090 and UN 3091". Special documentation is required to observe the regulations.

PA6 CASE (IP68) - ALKALINE BATTERIES



ALKALINE BATTERIES CONNECTION

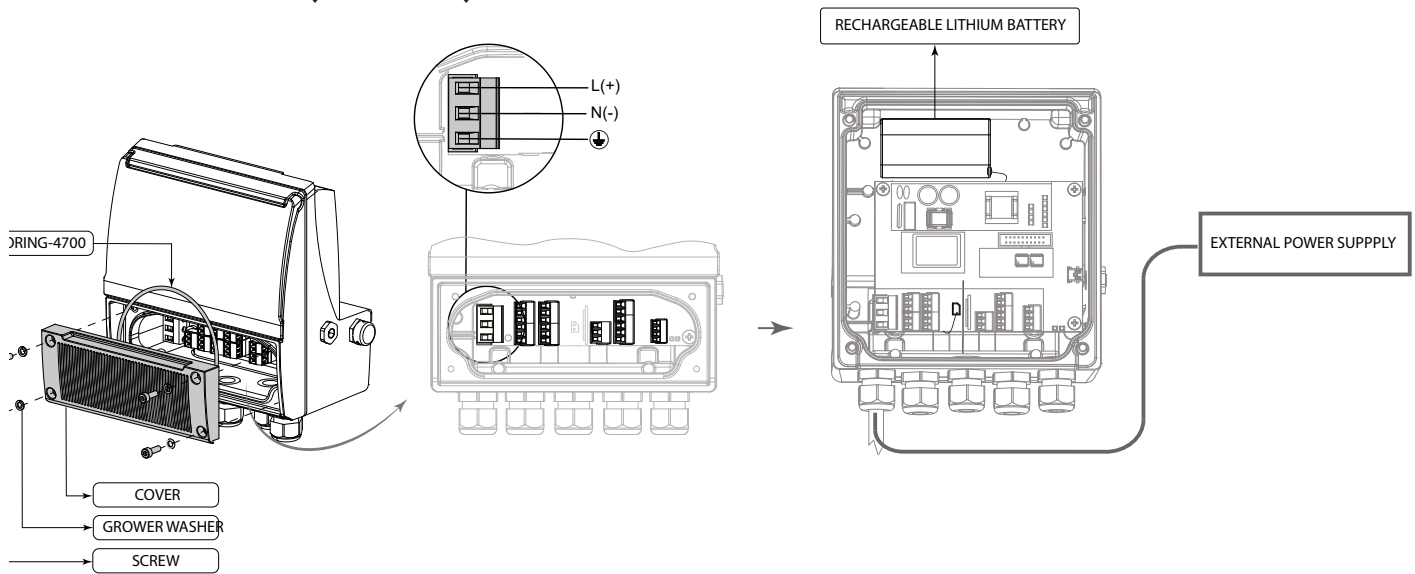


- ❑ Alkaline batteries can also be purchased separately from third parties.

POWER SUPPLY - POWER SUPPLY FROM THE ELECTRICAL GRID

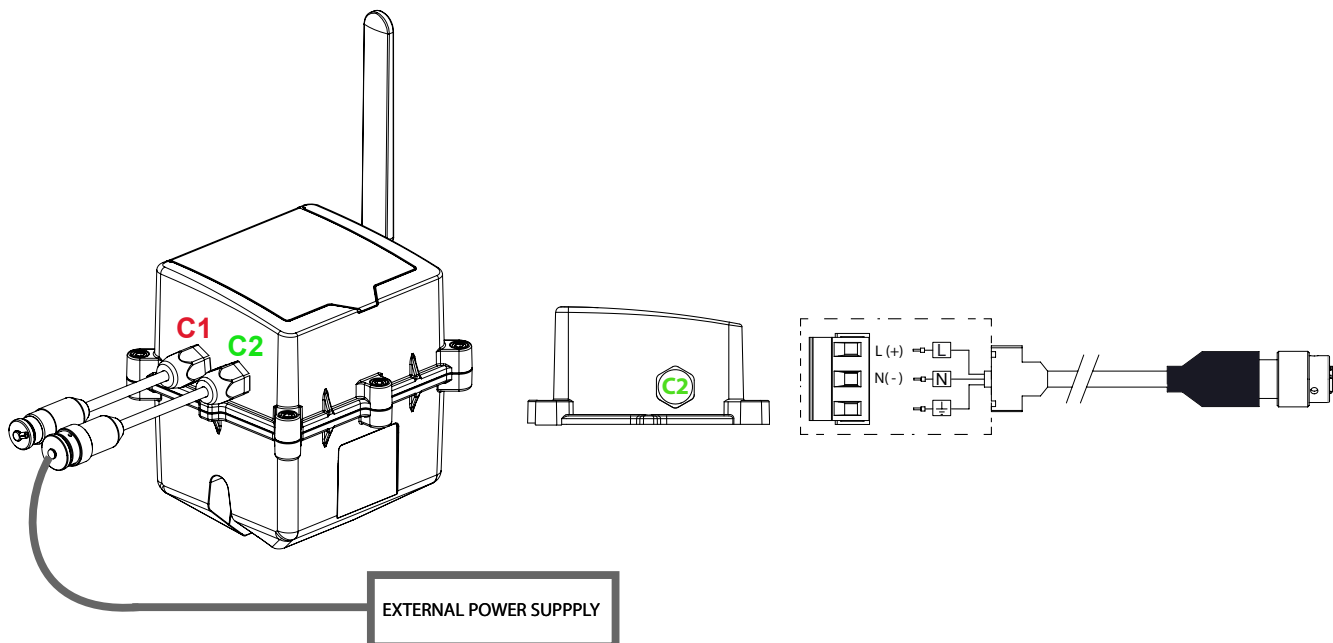
PA6 CASE (IP67)

ALLUMINIUM CASE (IP67- IP68)



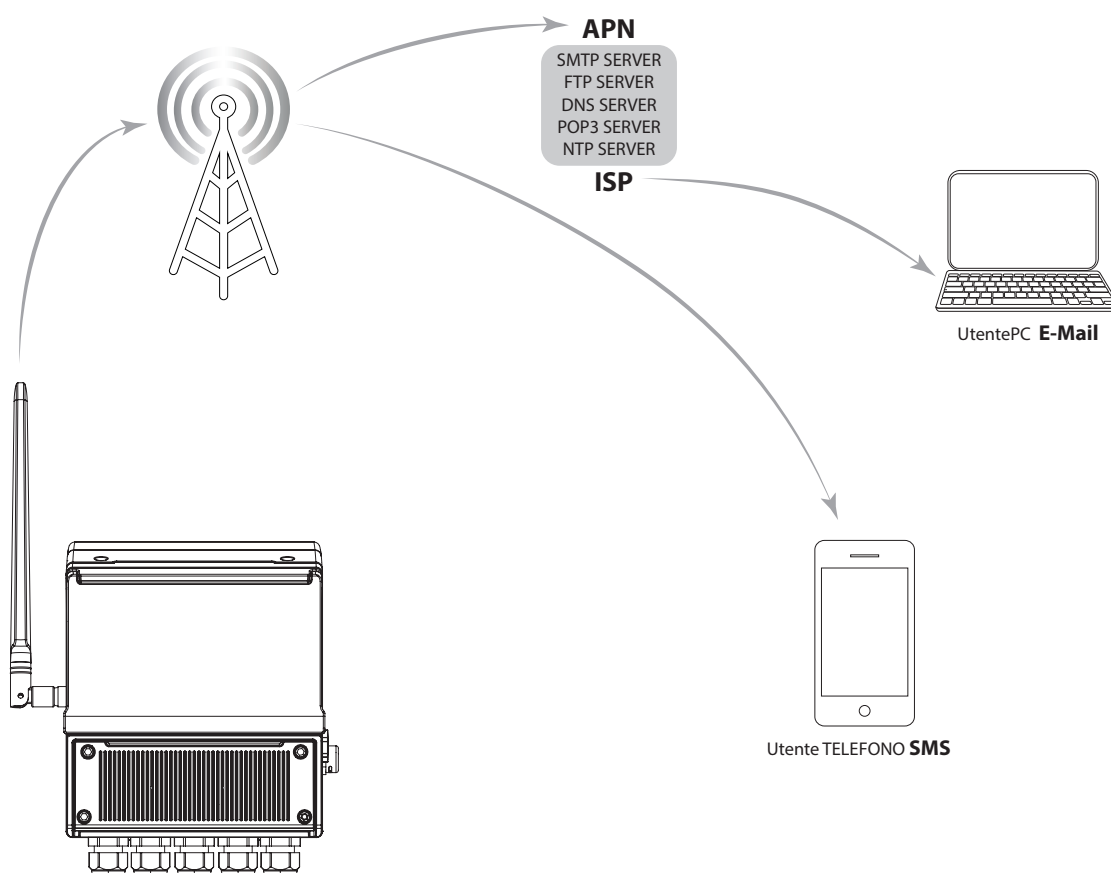
- ☐ The mains-powered converter is not supplied with the external battery housing.
- ☐ The connections are made with approved cables with flame retardant properties, whose section varies from 0.25mm² to 2.50 mm², based on distance / power.
- ☐ The wiring can be checked by unscrewing the 4 screws on the terminal cover.
- ☐ When the lid is raised, the terminal block is visible. The terminal block shows the wired connection of the converter to external devices, sensor included.
- ☐ The rechargeable battery is always present inside the converter with mains power supply.

PA6 CASE (IP68)



- ☐ Maximum capacity: 2 connectors
- ☐ Power configuration: The external power option occupies one bay, reducing the availability for other connections to a single unit.
- ☐ Supply: The power connector is supplied factory pre-wired.

4G NETWORK CONNECTION



- ❑ With the 4G connection it is possible to perform remote checks on the status of the device and the saved loggers.
- ❑ The MV255 converter can send processed and stored data to different devices via SMS and / or email
- ❑ Communication takes place via UMTS / GPRS technology, using data packets conveyed through various layers of protocols and hardware devices, as described below:
- ❑ Data -> Compression (ZIP) -> SMTP/POP3/FTP -> SSL -> TCP/IP -> PPP -> UMTS/GPRS -> RADIO LINK
- ❑ Data compression allows the volume to be reduced to values close to 1% compared to the original size (1000kb can be reduced to 10kb). Compressed files can be read by any operating system without any additional software.

SMTP and POP3 are protocols for transferring data via email between a client and a server

FTP is a protocol for the direct transfer of files between a client (meter) and a server

SSL is an intermediate layer dedicated to security that deals with encrypting and authenticating the flow of data so as to make it uneditable and unreadable by a third party who may be listening.

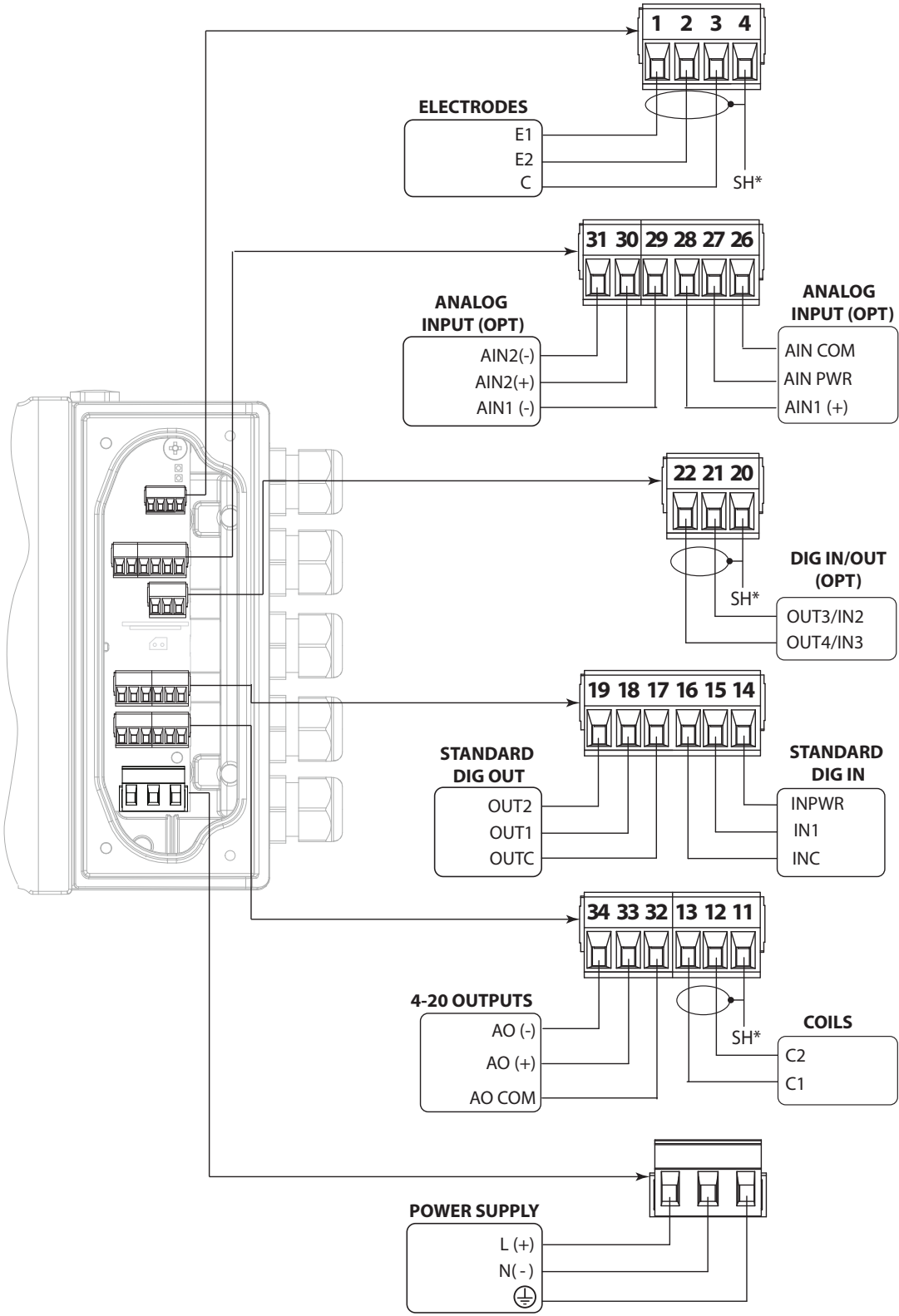
TCP / IP is a protocol that guarantees the transport of data with algorithms that control its flow, error control and integrity.

PPP is a protocol that allows the transfer of data packets between two points connected with a serial line, guaranteeing their integrity and correct timing.

UMTS / GPRS is a technology that allows the exchange of serious data in a multi-user wireless network

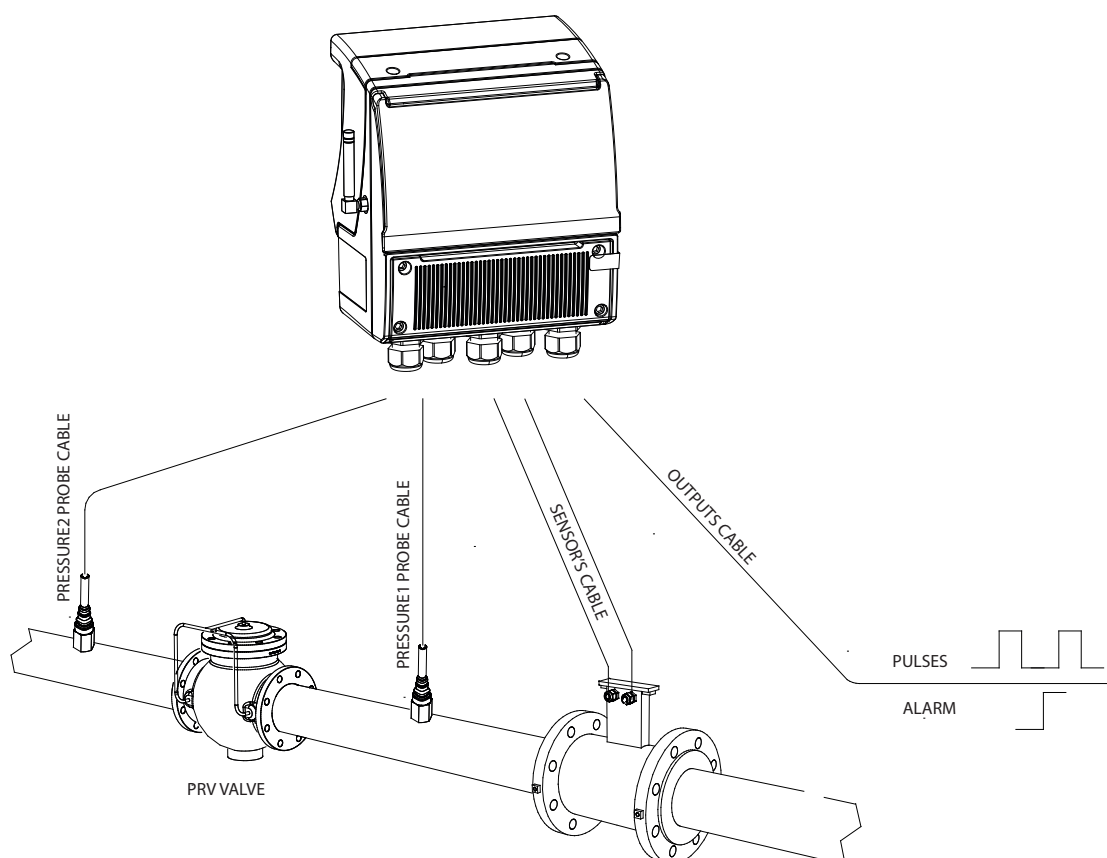
RADIO LINK is a hardware data transport system based on wireless transmission and reception

ELECTRICAL CONNECTIONS

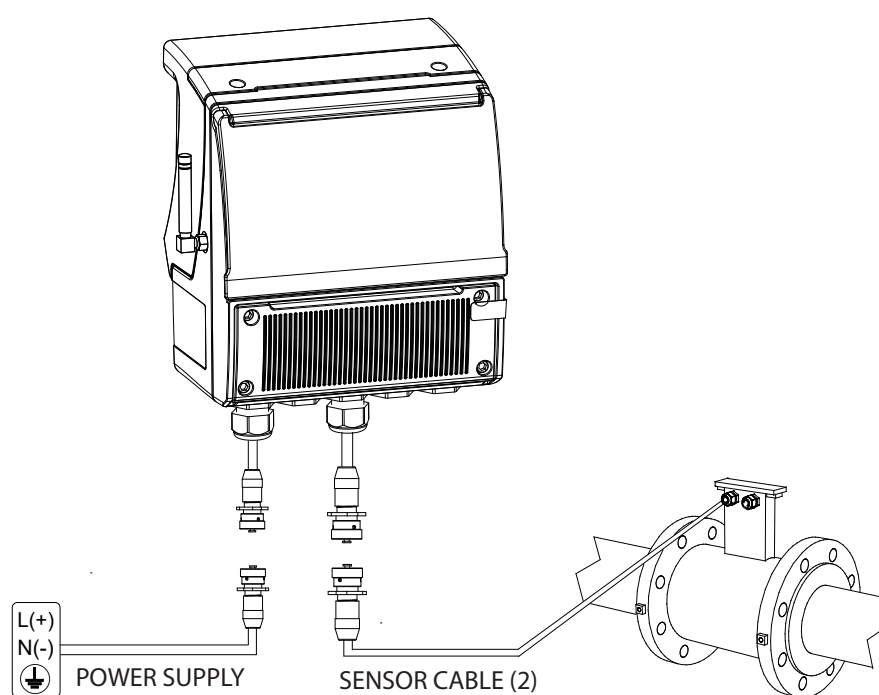


The manufacturer guarantees only English text available on our web site www.isoil.com

Pressure / temperature probes (example installation)

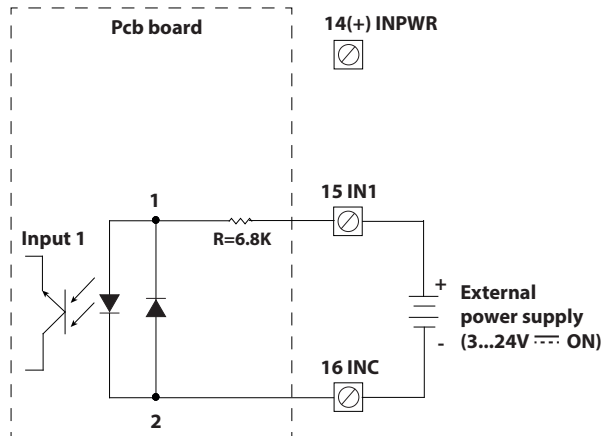


IP68 connection (example installation)

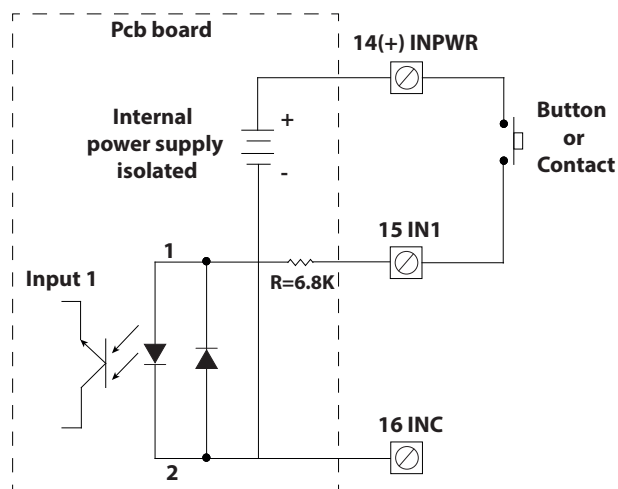


DIGITAL INPUT

On/off input (external power supply)

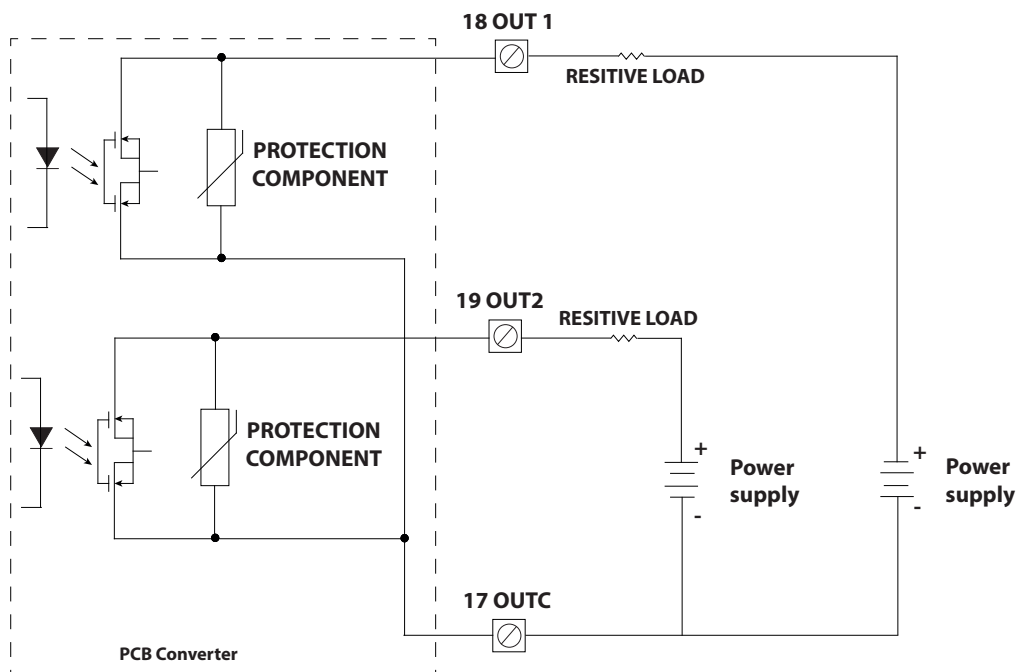


on/off input (internal power supply)



DIGITAL OUTPUTS

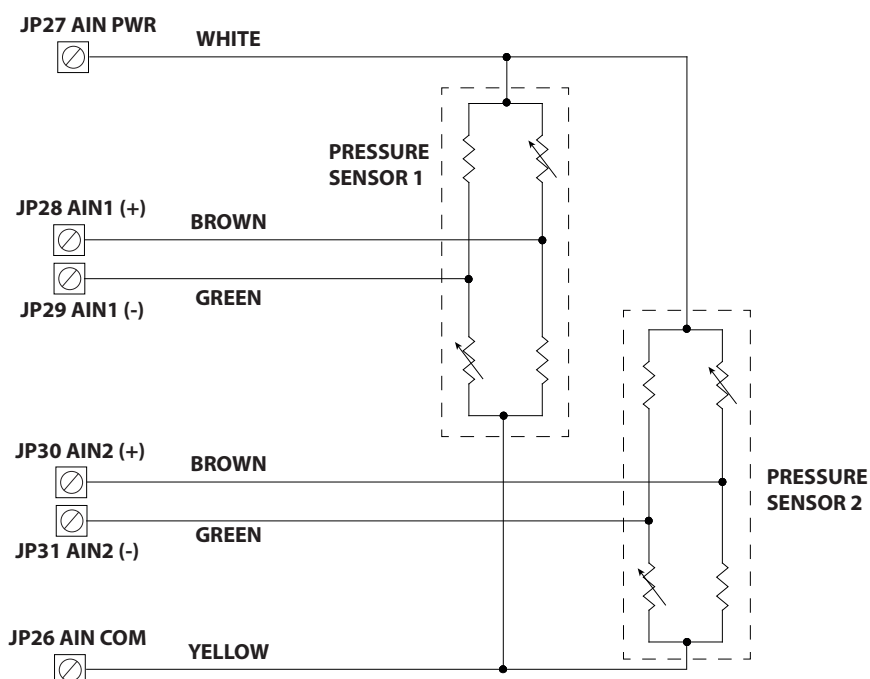
NOTE: the outputs are not polarized, so you can adopt schemes for connection to positive or common negative, as in the following electrical scheme.



AUXILIARY MODULE ANALOG INPUTS

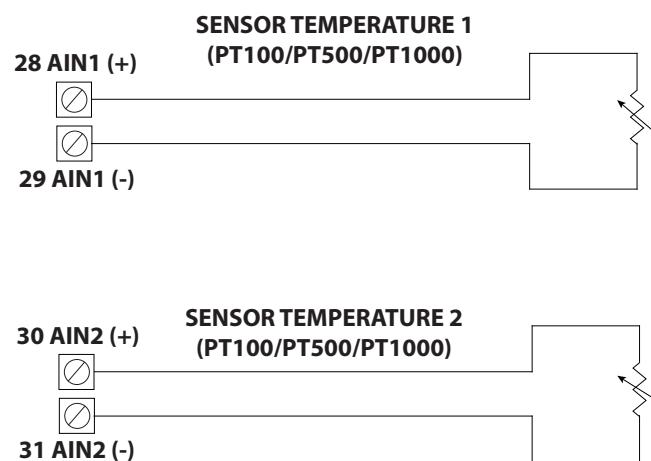
NOTE: Two different types of sensors can be connected, for example a pressure sensor connected to input 1 and a temperature sensor connected to input 2, or contrary.

Connection of pressure sensors



Connection of Temperature sensors

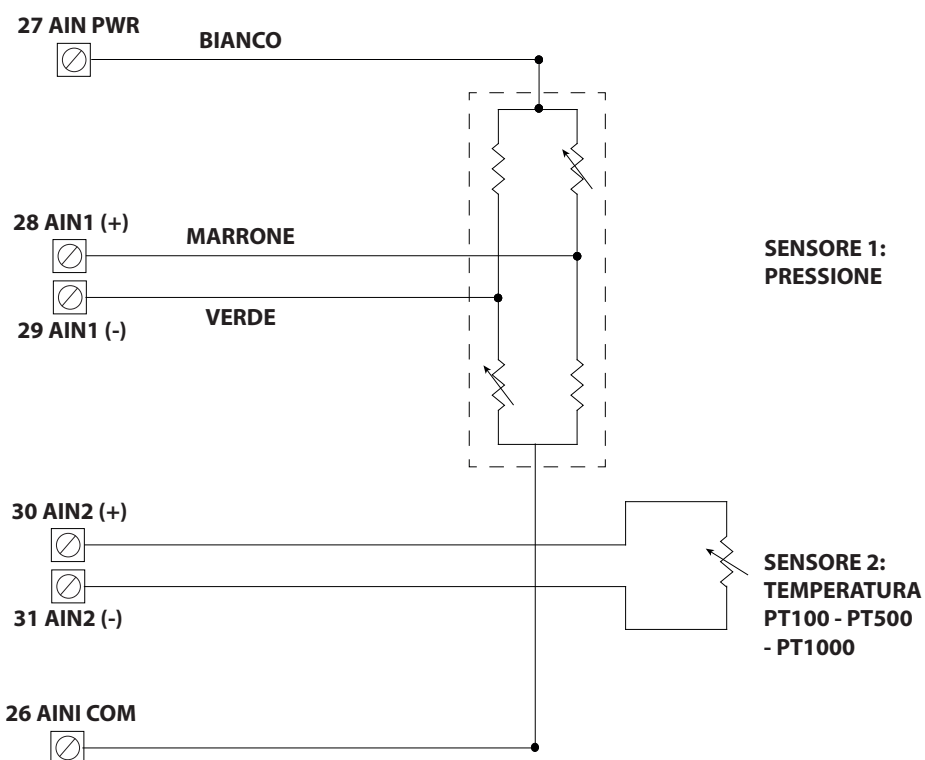
There is no compensation of cable resistance, we recommend the use of PT500 or PT1000 sensors if the cable length is more than one meter. The recognition of the sensor type (PT100 / 500/1000) is automatic.



Connection of a pressure/temperature sensor

Two different types of sensors can be connected, a pressure sensor and a temperature sensor.

For the temperature sensor, because there is no compensation of cable resistance, we recommend the use of PT500 or PT1000 sensors if the cable length is more than one meter. The recognition of the sensor type (PT100 / 500/1000) is automatic.



N.B: the pressure sensor **MUST BE** connected to input 1 and the temperature sensor **MUST BE** connected to Input 2!

OUTPUTS 4÷20 MA

Digital input / output terminal block of the add-on module. (22-OUT4 22-IN2, 21-OUT3 21-IN3, GND):

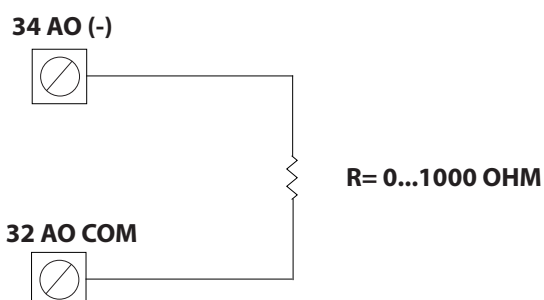
Passive mode: power is supplied from an external source.

- ☐ Connect the POSITIVE of the external source to the AO + terminal
- ☐ Connect the LOAD to the AO- terminal

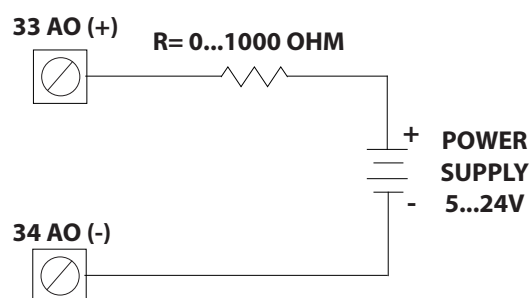
Active mode: power is supplied from the board power supply (if fitted).

- ☐ Connect the LOAD to the AO- terminal
- ☐ Connect the RETURN to the AOC terminal.

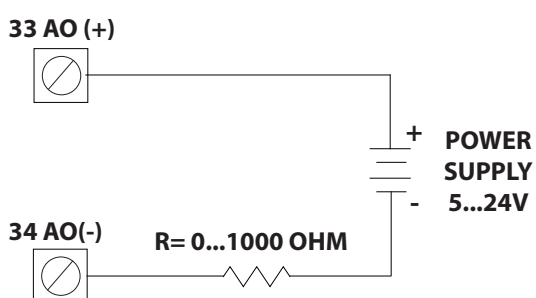
Active connection



Passive connection 1



Passive connection 2



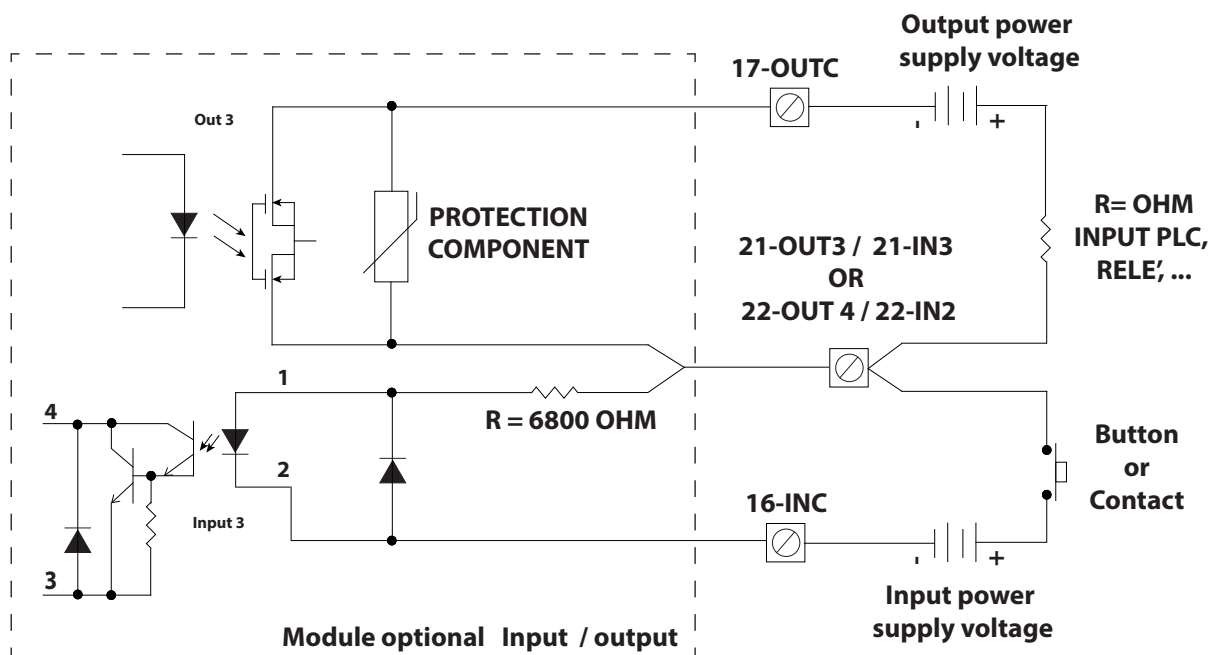
AUXILIARY MODULE DIGITAL INPUTS/ OUTPUTS

Digital inputs / outputs terminal block of the add-on module (22-OUT4 22-IN2, 21-OUT3 21-IN3, GND):

- ❑ 21-OUT3 21-IN3: digital output OUT 3 / digital input INPUT 3
- ❑ 22-OUT4 22-IN2: digital output OUT 4 / digital input INPUT 2
- ❑ GND: terminal connected to the protective earth (chassis) for connecting cable screens

NOTE:

- ❑ The digital outputs OUT4 and OUT3 use the 17-OUTC terminal as common.
- ❑ The digital inputs IN2 and IN3 use the 16-INC terminal as common.
- ❑ The digital output OUT4 and the digital input IN2 as well as the digital output OUT3 and the digital input IN3 share the same terminal but have different common, so the input and output circuits can be realized independently on the other hand, as indicated in the following diagram for OUT3 / IN3 (OUT4 / IN2 are equivalent).



USER INTERFACE

PUBBLIC

Public User

(The PUBLIC user can only view information useful only to identify the instrument)

Unique 8-digit login
Change access codes
Allow access for other users
Access to accuracy or security parameters
Access to wireless connection parameters
Access to sensor and card calibration parameters
User login valid for all interfaces

×
×
×
×
×
×
×
✓

ADMIN

Instrument Owner

Unique 8-digit login
Change access codes
Allow access for other users
Access to accuracy or security parameters
Access to wireless connection parameters
Access to sensor and card calibration parameters
User login valid for all interfaces

✓
*✓
✓
✓
×
×
×
×

* To directly access functions or parameters that may affect the accuracy or safety of the instrument, you must first enable other users and log in according to the instructions.

SERVICE

Maintenance worker

Unique 8-digit login
Change access codes
Allow access for other users
Access to accuracy or security parameters
Access to wireless connection parameters
Access to sensor and card calibration parameters
User login valid for all interfaces

✓
×
×
✓
*✓
×
✓

* Except for passwords, which are of exclusive access ADMIN.

FACTORY

Producer

Unique 8-digit login
Change access codes
Allow access for other users
Access to accuracy or security parameters
Access to wireless connection parameters
Access to sensor and card calibration parameters
User login valid for all interfaces

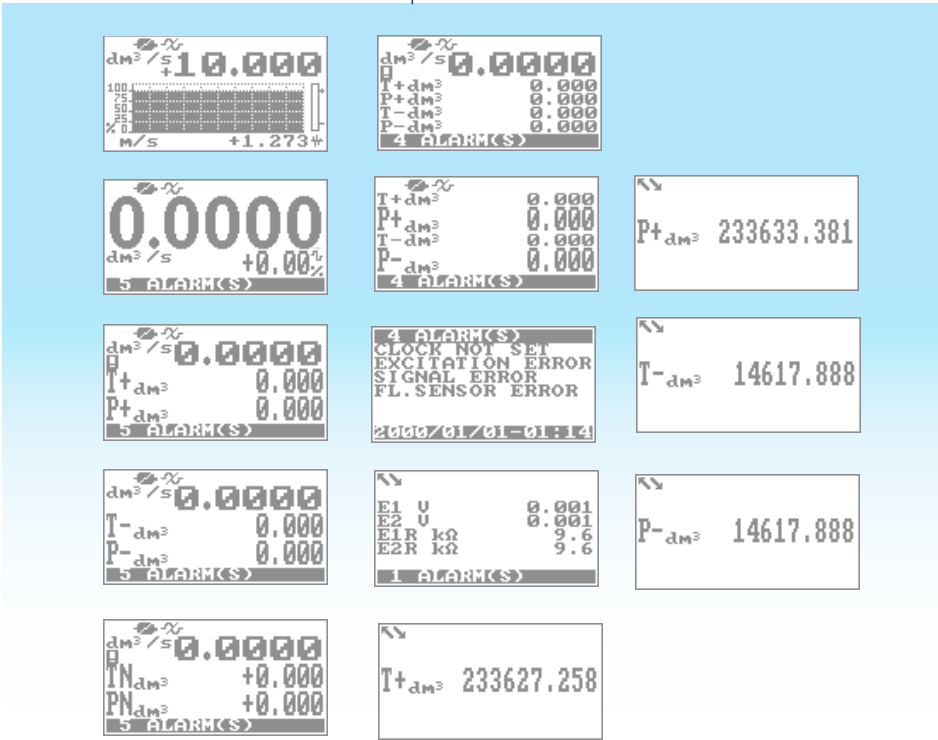
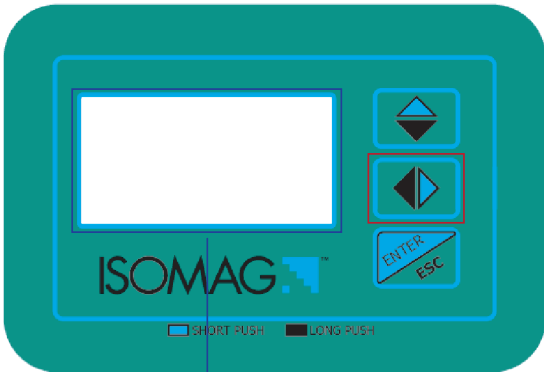
✓
×
×
×
×
×
*✓
×

* Except for sensitive parameters of ADMIN user, such as data and passwords used for wireless links.

✓ OPERATION PERMITTED
× OPERATION NOT PERMITTED

MAIN PAGES VISUALIZATION

Possible views by simply pressing the button



The manufacturer guarantees only English text available on our web site www.isoil.com

FUNCTIONS MENU

- P** Function visible with user PUBLIC
A Function visible with user ADMIN
S Function visible with user SERVICE

SENSOR

MAIN MENU	
1-Sensor	
2-Units	
3-Scales	
4-Measure	
5-Flow	
6-Pressure	
7-Temperature	
8-Other	
9-Settings	
10-About	
11-Factory	
12-Reset	
13-Exit	

SENSOR

S.model	0
Lining	UNSPEC.
S.type	FULLBORE
U.type	METRIC
Diam.	00700
KA	+00.9637
KA-	-44904
KZ	-18852
KD	+00.4014
Ins.position	0
KP dynamic	OFF
Ki	10000
Kp	10000
KC	100000
C.Curr.	mA025.0
C.Reg. PB	ms03
C.Reg.DH	stp 005
C.R.time	ms03
E.P.Detect	ON
Z max	Hohm 0500
S.err.delay	10
Sens.verify	OFF
KL	00. +000000
Zero point cal.	

1.1	Sensors model	S
1.2	Flow sensor lining material type	S
1.3	Type of sensor: fullbore or insertion	S
1.4	Type of measure units for sensor parameter: metric or imperial	S
1.5	Sensor's nominal/real diameter DN (0-2500)	S
1.6	Sensor coefficient KZ (zero point)	S
1.7	Calibration data of sensor for negative flow	S
1.8	Sensor coefficient KZ (zero point)	S
1.9	Sensor coefficient KD	S
1.10	Insertion position	S
1.11	KP dynamic, coefficient for insertion	S
1.12	Sensor coefficient Ki	S
1.13	Sensor coefficient Kp	S
1.14	Sensor coefficient KC	S
1.15	Sensor excitation current	S
1.16	Current regulator proportional band	S
1.17	Current regulator derivation constant	S
1.18	Measure sampling frequency	S
1.19	Enables the empty pipe detection feature	S
1.20	Empty pipe detection threshold	S
1.21	Signal error delay (n. sample)	S
1.22	Automatic sensor verify enable	S
1.23	Linearization coefficient	S
1.24	Pipe hydraulic zero calibration	S

MAIN MENU	
1-Sensor	
2-Units	
3-Scales	
4-Measure	
5-Flow	
6-Pressure	
7-Temperature	
8-Other	
9-Settings	
10-About	
11-Factory	
12-Reset	
13-Exit	

UNITS

Diam.	mm
S.cable	m
FR.unit	METRIC
Pls1 u.	METRIC
Pls2 u.	METRIC
T+ unit	METRIC
T+ unit	(m3)
T+ D.P.	4
P+ unit	METRIC
P+ unit	(m3)
P+ D.P.	4
T- unit	METRIC
T- unit	(m3)
T- D.P.	4
P- unit	METRIC
P- unit	(m3)
P- D.P.	4
Temp.unit	°C
Mass units	ON
Sg	(kg/dm3)
AIN1 m.u.	1,107:MCPI
AIN2 m.u.	1,107:MCPI

2.1	Nominal diameter measure unit	A S
2.2	Cable length on separate version	A S
2.3	Flow rate type measure unit: metric or imperial	A S
2.4	Pulse 1 type measure unit: metric or not metric	A S
2.5	Pulse 2 type measure unit: metric or not metric	A S
2.6	Total direct totalizer measure unit type: metric or imperial	A S
2.7	Total direct totalizer measure unit	A S
2.8	Total direct totalizer decimal point position	A S
2.9	Partial direct totalizer measure unit type: metric or not metric	A S
2.10	Partial direct totalizer measure unit	A S
2.11	Partial direct totalizer decimal point position	A S
2.12	Total reverse totalizer measure unit type: metric or not metric	A S
2.13	Total reverse totalizer measure unit	A S
2.14	Total reverse totalizer decimal point position	A S
2.15	Partial reverse totalizer measure unit type: metric or not metric	A S
2.16	Partial reverse totalizer measure unit	A S
2.17	Partial reverse totalizer decimal point position	A S
2.18	Temperature measure	A S
2.19	Enable/disable the selection of mass units on full scale set	A S
2.20	Specific gravity coefficient	A S
2.21	Unit of measurement for analogue input 1	A S
2.22	Unit of measurement for analogue input 2	A S

UNITS

- P** Function visible with user PUBLIC
- A** Function visible with user ADMIN
- S** Function visible with user SERVICE

SCALES

MAIN MENU 1-Sensor 2-Units 3-Scales 4-Measure 5-Alarms 6-Inputs 7-Outputs 8- 9- 10- 11- 12- 13-							
SCALES							
10	FS1	dm3/s	5.00	3.1	Full scale flow rate 1	A	S
11	Pls1	dm3	0.15	3.2	Full scale flow rate 2	A	S
12	Tpls1	(ms)		3.3	Duration of the pulse generated on channel 1	A	S
13	Pls2	dm3	0.15	3.4	Pulse value on channel 2	A	S
	Tpls2	15*(ms)		3.5	Duration of the pulse generated on channel 2	A	S

MEASURE

MAIN MENU 1-Sensor 2-Units 3-Scales 4-Measure 5-Alarms 6-Inputs 7-Outputs 8- 9- 10- 11- 12- 13-							
MEASURE							
10	Filt.bypass		ON	4.1	Measure filter bypass	A	S
11	Cut-off		00.0(%)	4.2	Measure cut-off threshold	A	S
12	Cal.verify		ON	4.3	Automatic calibration verify	A	S
13	H.imm.inp.		ON	4.4	High immunity inputs		S

ALARMS

MAIN MENU 1-Sensor 2-Units 3-Scales 4-Measure 5-Alarms 6-Inputs 7-Outputs 8- 9- 10- 11- 12- 13-							
ALARMS							
10	Max+	dm3/s	OFF	5.1	Max.pos.flow r. alarm threshold MAX+	A	S
11	Max-	dm3/s	OFF	5.2	Max.neg.flow r. alarm threshold MAX-	A	S
12	Min+	dm3/s	OFF	5.3	Min.pos.flow r. alarm threshold MIN+	A	S
13	Min-	dm3/s	OFF	5.4	Min.neg.flow r. alarm threshold MIN-	A	S
	Ohyst		XXXXXX	5.5	Hysterisis on f.rate alarm threshold	A	S
	A1Mx		()	5.6	MAX alarm threshold for analog input 1	A	S
	A1Mn		()	5.7	MIN alarm threshold for analog input 1	A	S
	Ai1H	HPa	0.00	5.8	AIN1 MIN alarm threshold	A	S
	A2Mx		()	5.9	MAX alarm threshold for analog input 2	A	S
	A2Mn		()	5.10	MIN alarm threshold for analog input 2	A	S
	Ai2H	HPa	0.00	5.11	Hysterisis on a. in.2 al. thr	A	S
	AccPg.al		OFF	5.12	Configuration access alarm	A	S
	All.alimen.		OFF	5.13	No power alarm	A	S

- P** Function visible with user PUBLIC
A Function visible with user ADMIN
S Function visible with user SERVICE

INPUTS

MAIN MENU	
1-Sensor	
2-Units	
3-Scales	
4-Measure	
5-Alarms	
6-Inputs	
7-Outputs	
8-Communication	
9-Display	
10-Data logger	
11-Factory	
12-Reset	
13-Exit	

INPUTS	
10-T+ reset	OFF
11-P+ reset	OFF
12-T- reset	OFF
13-P- reset	OFF
Count lock	OFF
Meas.lock	OFF
Calibration	OFF
Sys.v.detect	ON
D.In2	SYS.VIOL.
D.In3	OFF
Alim.in.	ON

6.1	Total direct (positive) flow totalizer reset enable	A	S
6.2	Partial direct (positive) flow totalizer reset enable	A	S
6.3	Total reverse (negative) flow totalizer reset enable	A	S
6.4	Partial reverse (negative) flow totalizer reset enable	A	S
6.5	Totalizer counting lock command	A	S
6.6	Measure zero lock command	A	S
6.7	Calibration external command	A	S
6.8	System violation detect	A	S
6.9	Digital input 2 function	A	S
6.10	Digital input 3 function	A	S
6.11	Auxiliary digital inputs power supply	A	S

OUTPUTS

MAIN MENU	
1-Sensor	
2-Units	
3-Scales	
4-Measure	
5-Alarms	
6-Inputs	
7-Outputs	
8-Communication	
9-Display	
10-Data logger	
11-Factory	
12-Reset	
13-Exit	

OUTPUTS	
Out1	F.R.SIGN
Out1 inv.	ON
Out1 pls.	ON
Out2	AIN1 MH/MN
Out2 inv.	ON
Out2 pls.	ON
Out3	MAX.AL+
Out3 inv.	ON
Out3 pls.	ON
Out4	MAX.AL+
Out4 inv.	ON
Out4 pls.	ON
Out mA1	4-20 +/-
AI5	dm3/s

7.1	Output 1 function selection	A	S
7.2	Output 1 inverted status	A	S
7.3	Output 1 pulsed status	A	S
7.4	Output 2 function selection	A	S
7.5	Output 2 inverted status	A	S
7.6	Output 2 pulsed status	A	S
7.7	Output 3 function selection	A	S
7.8	Output 3 inverted status	A	S
7.9	Output 3 pulsed status	A	S
7.10	Output 4 function selection	A	S
7.11	Output 4 inverted status	A	S
7.12	Output 4 pulsed status	A	S
7.13	Analog current output 1 range	A	S
7.14	Full scale value for analog out1	A	S

COMMUN.

COMMUNICATIONS

Comm.proc.abort
Send status
Send DL Format
Send ST Format
Send proc.data
Send events
Send alarms
Send l.data
Send s.test
Send config.
Send Fn.enable
Send qs.list

8.1	Communication process abort	A	S
8.2	Send device status information	A	S
8.3	Send data logger fields format	A	S
8.4	Send s.test data fields format]	A	S
8.5	Send instantaneous process data	A	S
8.6	Send last system logged events	A	S
8.7	Send system alarms information	A	S
8.8	Send last logged process data	A	S
8.9	Send last sensor test data	A	S
8.10	Send parameters config.data	A	S
8.11	Send functions enable status	A	S
8.12	Send quick start func.list]	A	S

- P** Function visible with user PUBLIC
A Function visible with userADMIN
S Function visible with user SERVICE

COMMUN.

MAIN MENU
1-Sensor
2-Units
3-Scales
4-Measure
5-Alarms
6-Inputs
7-Outputs
8-Communication
9-Display
10-D
11-D
12-D
13-D

RTC sync.req.	
Check m.box	
FTP download	ON
Mail send	ON
Mail rec.	ON
FTP upload	ON
FTP download	ON
File compr.	ON
ZIP password	XXXXXXXXXX
Conn.test	ON
Auto Ev.snd	ON
Access p.name	XXXXXXXXXX
Auth.type	OFF
User name	XXXXXXXXXX
User password	XXXXXXXXXX
SMTP User	XXXXXXXXXX
SMTP psw.	XXXXXXXXXX
POP3 User	XXXXXXXXXX
POP3 psw.	XXXXXXXXXX
FTP User	XXXXXXXXXX
FTP password	XXXXXXXXXX
Min.sig.thr	ON
Primary DNS	000.000.000
Secondary DNS	000.000.000
Retries	3
Instr.ID	XXXXXXXXXX
HELO string	XXXXXXXXXX
Sender addr.	XXXXXXXXXX
Receiver 1	XXXXXXXXXX
Receiver 2	XXXXXXXXXX
SMTP server	XXXXXXXXXX
SMTP sl	OFF
SMTP port	25
POP3 server	XXXXXXXXXX
POP3 sl	SSL/TLS
POP3 port	995
FTP server	XXXXXXXXXX
FTP port	21
FTP secure	ON
FTP data	XXXXXXXXXXXXXX
FTP events	XXXXXXXXXXXXXX
FTP commands	XXXXXXXXXXXXXX
Cert.check	ON
NTP server	XXXXXXXXXXXXXX
T.ref	WWW/MM/DD
InMsTm	0:00
ProcST	0:00
LogDST	0:00
S.Compl.File	ON
Alarm time	0:00
SMS F.en	ON
Auth.number	1234
Mess.recv.1	1234
Mess.recv.2	1234
Mess.recv.3	1234

8.13	Request a RTC synchronization	A	S
8.14	Check mail box for new mails	A	S
8.15	FTP download execute command	A	S
8.16	Mail send function enable	A	S
8.17	Mail receive function enable	A	S
8.18	FTP upload function enable	A	S
8.19	FTP download function enable	A	S
8.20	File compression enable status	A	S
8.21	Compressed archive password	A	
8.22	Connection test enable	A	S
8.23	Automatic events send on alarms	A	S
8.24	Access point name	A	S
8.25	Access point authentication type	A	S
8.26	Access point user name	A	S
8.27	Access point password	A	
8.28	User name for SMTP service	A	S
8.29	Password for SMTP email service	A	
8.30	User name for POP3 service	A	S
8.31	Password for POP3 email service	A	
8.32	User name for FTP service	A	S
8.33	Password for FTP service	A	
8.34	Min.antenna signal threshold	A	S
8.35	Primary Domain Name Server	A	S
8.36	Secondary Domain Name Server	A	S
8.37	Max.number of session retries	A	S
8.38	Instrument identifier string	A	S
8.39	HELO identification string	A	S
8.40	Email address of sender	A	S
8.41	Email address of receiver 1	A	S
8.42	Email address of receiver 2	A	S
8.43	SMTP mail send server name	A	S
8.44	SMTP secure connection layer	A	S
8.45	SMTP mail send server port num.	A	S
8.46	POP3 mail receive server name	A	S
8.47	POP3 Secure connection layer	A	S
8.48	POP3 mail receive serv.port num.	A	S
8.49	FTP server name or address	A	S
8.50	FTP server port number	A	S
8.51	FTP secure connection enable	A	S
8.52	FTP root directory for data	A	S
8.53	FTP root directory for events	A	S
8.54	FTP root directory for commands	A	S
8.55	Server identity certif.check	A	S
8.56	NTP time server name	A	S
8.57	Data send time reference	A	S
8.58	Incoming message check time	A	S
8.59	Process data send time	A	S
8.60	Logger data send time	A	S
8.61	Send only complete file	A	S
8.62	Alarm minimum send time interval	A	S
8.63	SMS functions global enable	A	S
8.64	Authorized incoming phone number	A	S
8.65	Short messages receiver 1	A	S
8.66	Short messages receiver 2	A	S
8.67	Short messages receiver 3	A	S

- P** Function visible with user PUBLIC
A Function visible with user ADMIN
S Function visible with user SERVICE

DISPLAY

DISPLAY				
Language	EN	9.1	Language for all messages	A S
Disp.time	s	9.2	Display/keyboard inactivity time	A S
D.rate		9.3	Display refresh rate	A S
Disp.Fn.	1	9.4	Display function number	A S
Disp.lock	OFF	9.5	Display function selection lock	A S
Part.tot.	ON	9.6	Partial totalizers enable	A S
Neg.tot.	ON	9.7	Negative totalizers enable	A S
Net tot.	ON	9.8	Net totalizers enable	A S
Disp.date	ON	9.9	Time and date display enable	A S
Quick start	OFF	9.10	Quick start menu enable	A S

```

MAIN
1-
2-
3-
4-
5-
6-
7-
8-
9-Display
10-Data logger
11-Functions
12-Diagnostic
13-System

```

DATA LOGGER

DATA LOGGER				
D.logger en.	ON	10.1	Data logger enabling	A S
Meas.units	ON	10.2	Measure unit recording enable	A S
Field separ.	;	10.3	Field separator character	A S
Decim.separ.	.	10.4	Decimal separator character	A S
Interv.	0:01:00	10.5	Sampling interval	A S
Log T+	OFF	10.6	Totalizer Total Positive Enable T+	A S
Log P+	OFF	10.7	Totalizer Partial Positive Enable P+	A S
Log T-	OFF	10.8	Totalizer Total Negative Enable T-	A S
Log P-	OFF	10.9	Totalizer Partial Net Enable P-	A S
Log TN	OFF	10.10	Totalizer Total Net Enable	A S
Log PN	OFF	10.11	Totalizer Partial Net Enable	A S
Log Q(UM)	OFF	10.12	Flow rate in Technical Units Enable	A S
Log Q(%)	OFF	10.13	Flow rate in Percentage Enable	A S
Log AL.EU	OFF	10.14	Alarm Events Enable	A S
Log ADM	OFF	10.15	Additional Measures Enable	A S
Log STR	OFF	10.16	Sensor Test Results Enable	A S
Log BTS	OFF	10.17	Board TemperatureS Enable	A S
Log IBV	OFF	10.18	Internal Board Voltages	A S
Log EDC	OFF	10.19	Electrodes DC Voltages Enable	A S
Log EAC	OFF	10.20	Electrodes AC voltages Enable	A S
Log EIZ	OFF	10.21	Electrodes Source Impedance Enable	A S
Log SCU	OFF	10.22	Sensor Coils Values Enable	A S

```

MAIN
1-
2-
3-
4-
5-
6-
7-
8-Communication
9-Display
10-Data logger
11-Functions
12-Diagnostic
13-System

```

FUNCTION

FUNCTION				
T+ reset	ON	11.1	Volume Totalizer Total Positive Reset	A S
P+ reset	ON	11.2	Volume Totalizer Partial Positive Reset	A S
T- reset	;	11.3	Volume Totalizer Total Negative Reset	A S
P- reset	.	11.4	Volume Totalizer Partial Negative Reset	A S
Load Sens.F.def	0:01:00	11.5	Load Factory Default Sensor Data	A S
Load Conv.F.def	OFF	11.6	Load Factory Default Converter Data	A S
Calibration	OFF	11.7	CALibration Immediate Command	S

```

MAIN
1-
2-
3-
4-
5-
6-Inputs
7-Outputs
8-Communication
9-Display
10-Data logger
11-Functions
12-Diagnostic
13-System

```

- P** Function visible with user PUBLIC
A Function visible with user ADMIN
S Function visible with user SERVICE

DIAGNOSTIC

DIAGNOSTIC				
Self test		12.1	Auto test Immediate Command	S
Display test		12.2	Execute bit pattern test display	S
Verif. Sens. Verify		12.3	Sensor Verify Command	S
Flow sim.	OFF	12.4	Measure Simulation Enable	S
Diag. sys. val.		12.5	Diagnostic system values	S
Display measures		12.6	Diagnostic Measure VaLues	S
Disp. comm. vars		12.7	Diagnostic Communication VaLues	S
SMS test		12.8	Short Message Test	A S
SMTP conn test		12.9	SMTP Connection Test	A S
POP3 conn. test		12.10	POP3 Connection Test	A S
FTP conn. test		12.11	FTP Connection Test	A S
Display graphs		12.12	Oscilloscope function	S
SD card info		12.13	SD memory Status	P A S
Firmware info		12.14	Model and Software Version	P A S
S/N	0	12.15	Serial Number	P A S
WT	000:00:00:00	12.16	Total Working Time	P A S
TC	0	12.17	Total Measure Cycles	P A S

MAIN

1-Functions

2-Diagnostic

3-System

SYSTEM

SYSTEM				
En.service	OFF	13.1	Enable service access	A
En.Factory	OFF	13.2	Enable factory access	A
Dayl.saving	ON	13.3	Daylight Saving Time Enable	A S
Time zone	+00.00	13.4	Time zone	A S
Date/time	///00:00:00	13.5	Date and Time	A S
Admin.	*****	13.6	Level 1 Access CoDe	A
Service	*****	13.7	Level 2 Access CoDe	A
Device IP addr	63015504	13.8	Device IP Address	S
Client IP addr	11.012.012	13.9	Client IP Address	S
Network mask	255.255.254	13.10	Network MaSk	S
KS	100.000	13.11	Coefficient KS	S
KR	100.000	13.12	Coefficient KR	S
Stand-by		13.13	System StandbY	S
FW update		13.14	Firmware update	A S

MAIN

1-1

2-1

3-1

4-1

5-1

6-1

7-1

8-1

9-1

10-Data logger

11-Functions

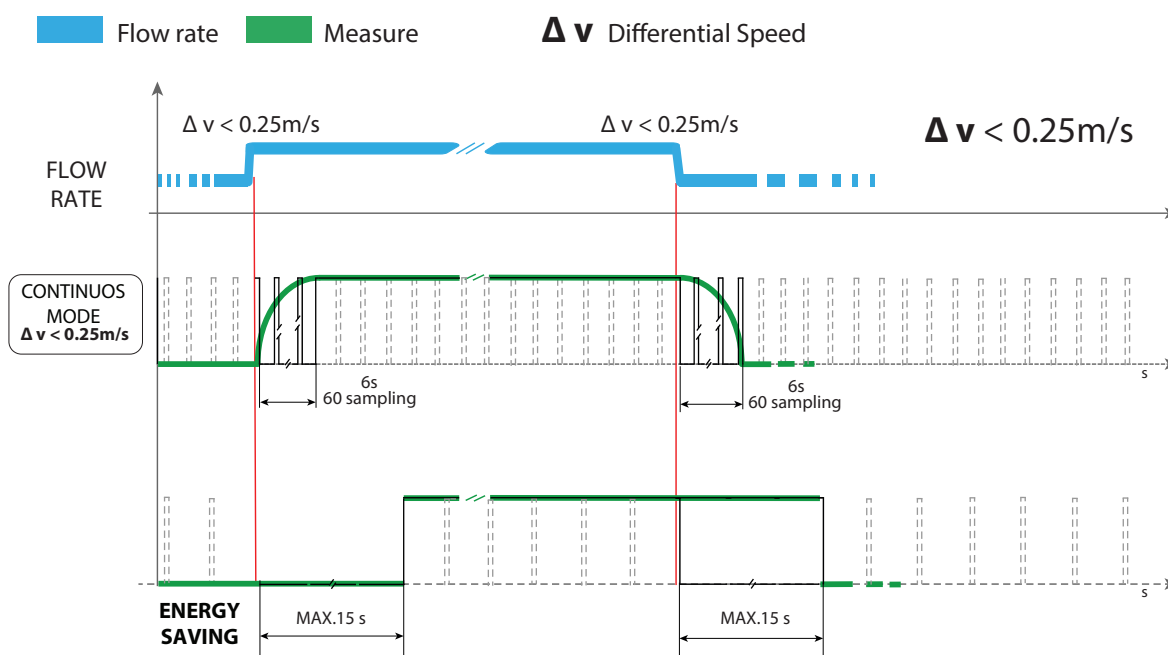
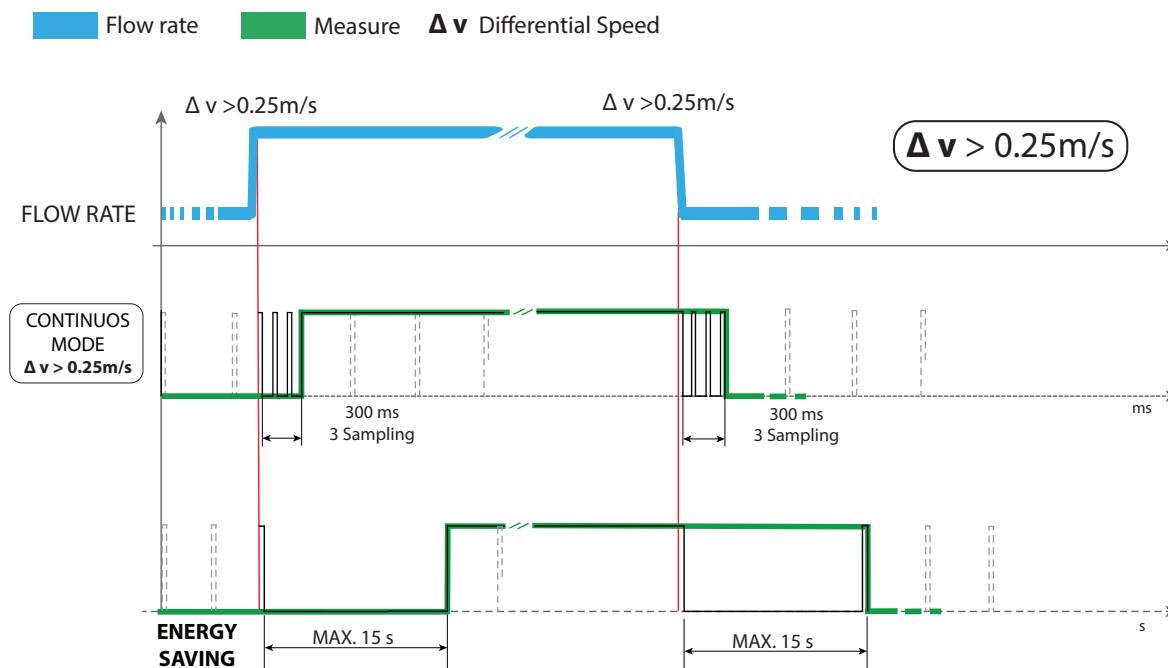
12-Diagnostic

13-System

MEASUREMENT SETTINGS

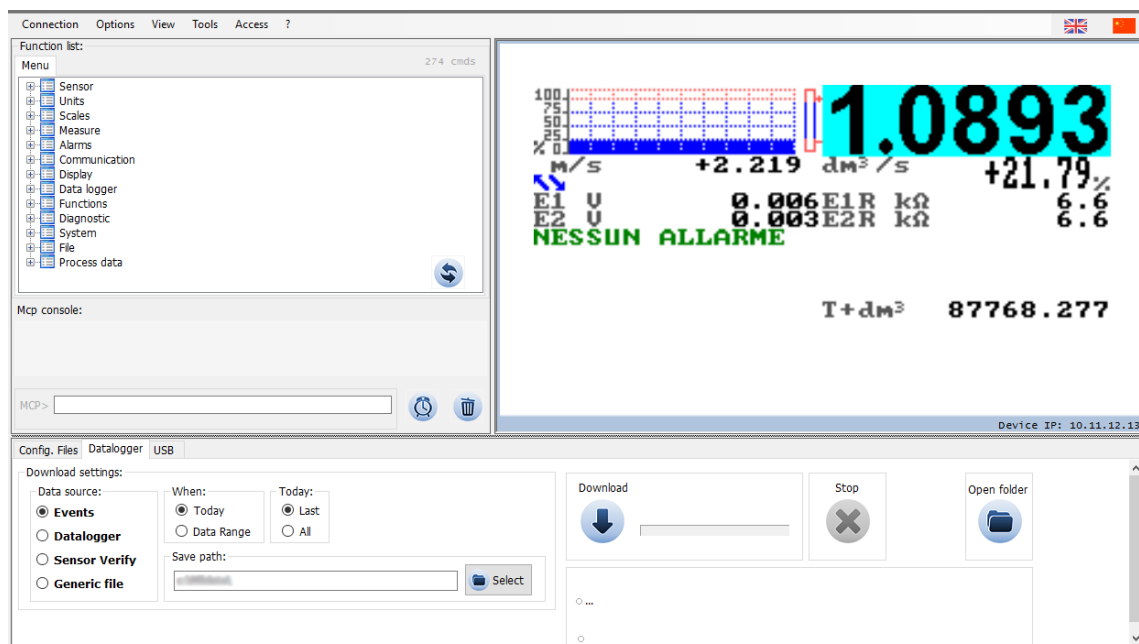
MV255 can be programmed to acquire the measurement in two different ways:

- ☐ ENERGY SAVING MODE: Sampling every 15 s.
- ☐ CONT. PWR: Continuous power sampling.

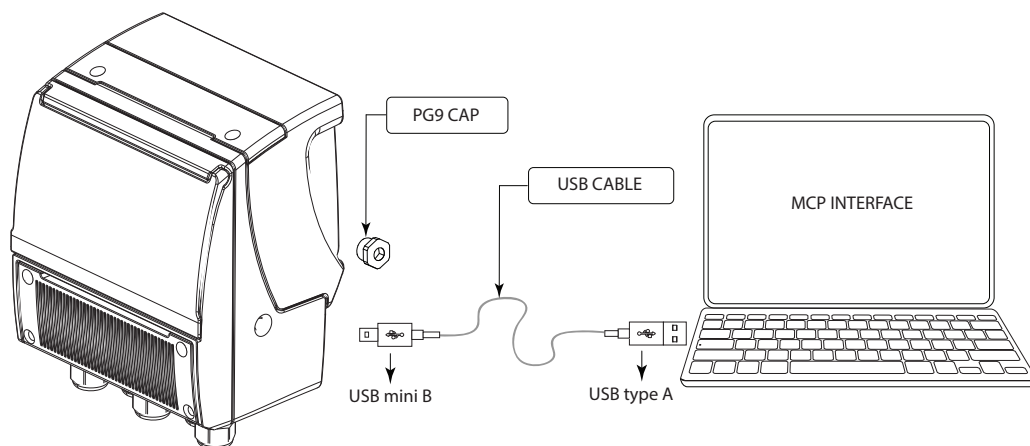


USER INTERFACE

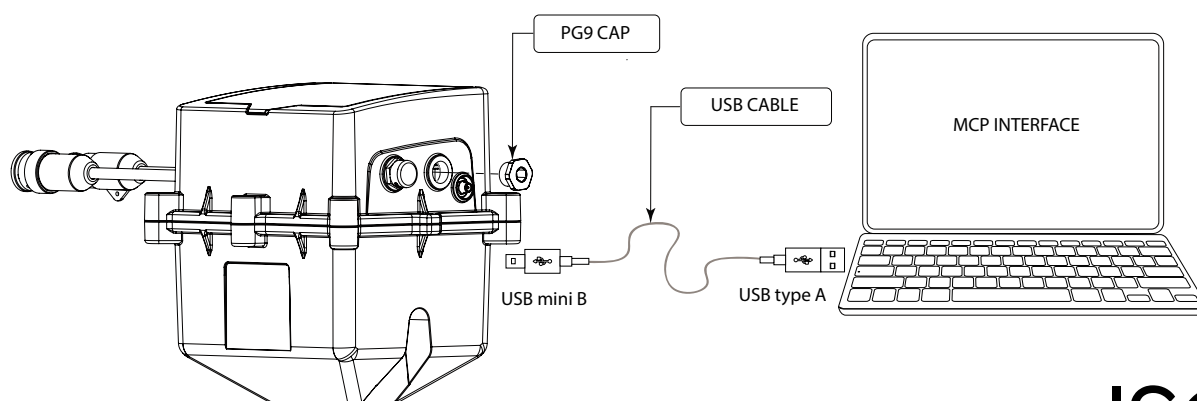
Besides the keyboard, the converter can be programmed by MCP INTERFACE: a real time interface between converter and PC.



PA6 CASE (IP67) ALLUMINIUM CASE (IP67- IP68)



PA6 CASE (IP68)



DATA LOGGER

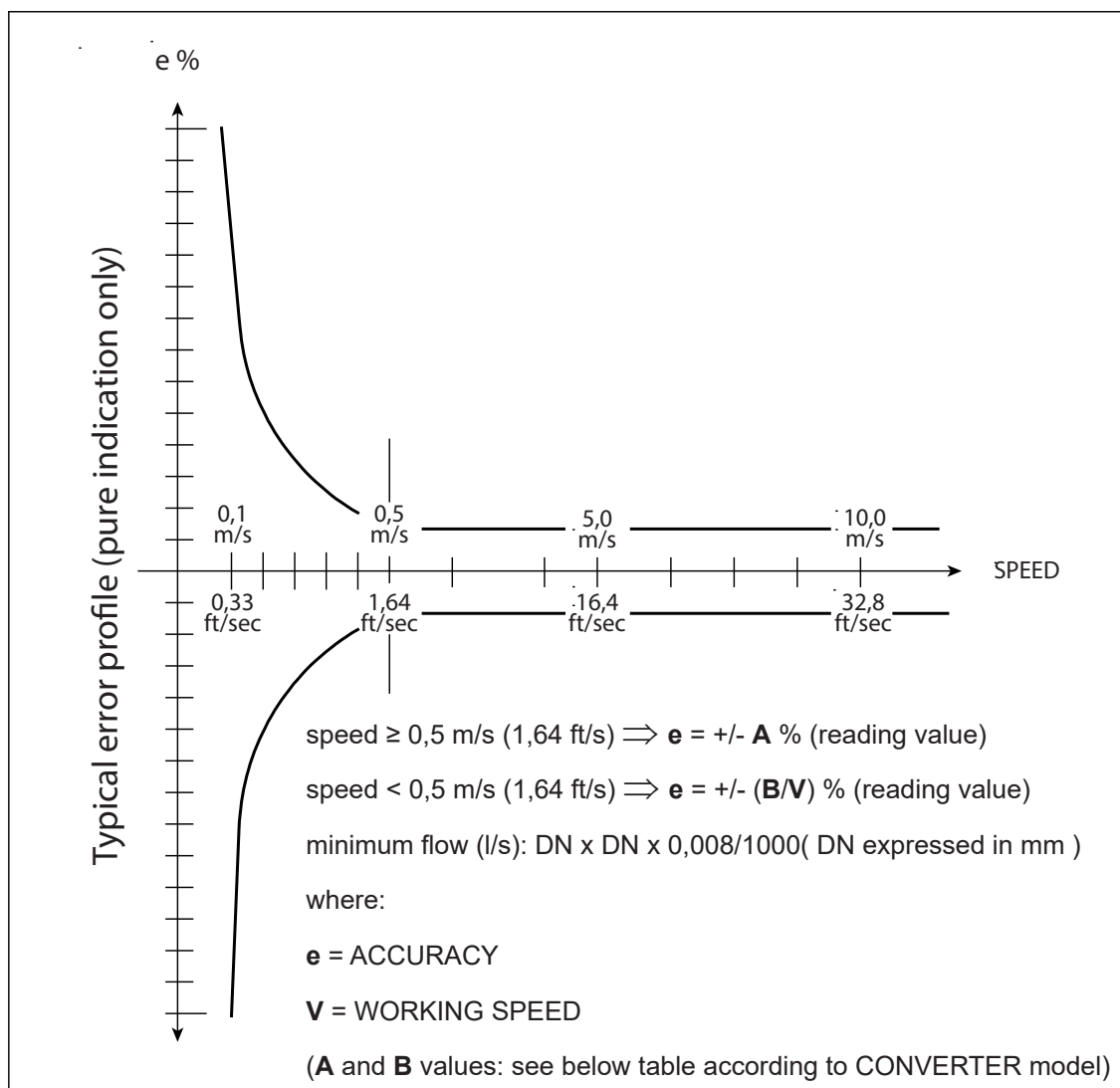
Data is stored on micro SD card; the recorded data or the events, can be easily downloaded by the MCP INTERFACE, pressing the relevant key as shown below.

Note: to record correctly the data, the date and time shall be properly set.

Example of extrapolation of the data logger file:

K	P- 0 0 0 0 0 0	TOT_P-: value of the partial negative totalizer. Fields present when the sending flag of the P-totalizer is active
J	UM dm3 dm3 dm3 dm3 dm3	U=xxx: unit of measurement used for the partial negative totalizer. Fields present when the sending flag of the P-totalizer is active
I	T- 0 0 0 0 0 0	TOT_T-: total negative totalizer value. Fields present when the sending flag of the T-totalizer is active
H	UM dm3 dm3 dm3 dm3 dm3	U=xxx: unit of measurement used for total negative totalizer. Fields present when the sending flag of the T-totalizer is active
G	P+ 0 0 0 0 0 0	TOT_P+: value of the positive partial totalizer. Fields present when the sending flag of the totalizer P is active
F	UM dm3 dm3 dm3 dm3 dm3	U = xxx: unit of measurement used for the positive partial totalizer. Fields present when the sending flag of the P + totalizer is active
E	T+ 0 0 0 0 0 0	TOT_T +: total positive totalizer value. Fields present when the sending flag of the T + totalizer is active
D	UM dm3 dm3 dm3 dm3 dm3	U = xxx: unit of measurement used for total positive totalizer. Fields present when the sending flag of the T + totalizer is active
C	ORA 00:00:00 00:00:00 00:00:00 00:00:00 00:00:00	TIME: Viewing the recording time for each record
B	DATA dd/mm/yy dd/mm/yy dd/mm/yy dd/mm/yy dd/mm/yy	DATE: Display of the recording date for each record.
A	N° RECORD n° n° n° n° n°	RNUM: record number. View the number of recorded records in progression.

ACCURACY



Fullbore Sensor

MS501/MS600/MS1000/MS2410/MS2500			MS5000		
A	B(m/s)	B(ft/s)	A	B(m/s)	B(ft/s)
0,4*	0,20	0,66	2	1	3,28

* = 0,25 (special velocity > 1 m/s)

Insertion sensor

See Sensor DATA SHEET.

Reference conditions below and as per internal testing procedures:

- ☐ Constant flow rate during the test
- ☐ Pressure: >30 Kpa
- ☐ Flow condition : fully developed flow profile
- ☐ Zero stability $\pm 0,005 \%$

MI-001

The sensor **MS2500** diameters below, coupled with **MV255** are certified in accordance with European directive 2014/32/EU category MI-001

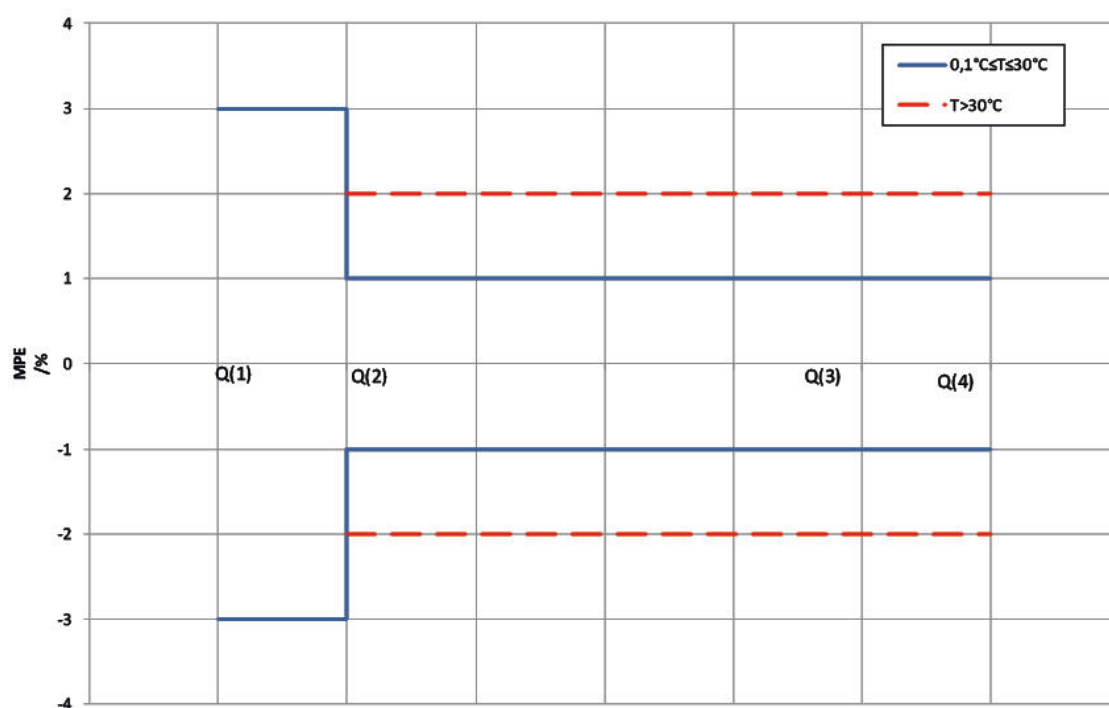
SIZE		Q3	Q2	Q1	R
mm	inch	m3/h			Q3/Q1
25	1	16	0.064	0.040	400
32	1 ¼	25	0.10	0.063	
40	1 ½	40	0.16	0.10	
50	2	63	0.25	0.16	
65	2 ½	100	0.40	0.25	
80	3	160	0.64	0.40	
100	4	250	1.0	0.63	
125	5	400	1.6	1.0	
150	6	630	2.5	1.6	
200	8	1000	4.0	2.5	
250	10	1600	6.4	4.0	
300	12	2500	10	6.3	
350	14	2500	10	6.3	
400	16	4000	16	10	
450	18	4000	16	10	
500	20	6300	25	16	
600	24	10000	40	25	250
650	26	10000	40	25	
700	28	10000	64	40	160
750	30	10000	64	40	
800	32	16000	160	100	100
900	36	16000	160	100	
1000	42	16000	256	160	80
1200	48	16000	320	200	
1400	56	16000	320	200	
1600	64	16000	320	200	40
1800	72	16000	640	400	
2000	80	16000	640	400	

SIZE		Q3	Q2	Q1	R
mm	inch	m3/h			Q3/Q1
25	1	16	0.10	0.064	250
32	1 ¼	25	0.16	0.10	
40	1 ½	40	0.26	0.16	
50	2	63	0.40	0.25	
65	2 ½	100	0.64	0.40	
80	3	160	1.0	0.64	
100	4	250	1.6	1.0	
125	5	400	2.6	1.6	
150	6	630	4.0	2.5	
200	8	1000	6.4	4.0	
250	10	1600	10	6.4	
300	12	2500	16	10	
350	14	2500	16	10	
400	16	4000	26	16	
450	18	4000	26	16	
500	20	6300	40	25	
600	24	10000	64	40	160
650	26	10000	64	40	
700	28	10000	64	40	100
750	30	10000	64	40	
800	32	16000	160	100	80
900	36	16000	160	100	
1000	42	16000	256	160	40
1200	48	16000	320	200	
1400	56	16000	320	200	
1600	64	16000	320	200	40
1800	72	16000	640	400	
2000	80	16000	640	400	

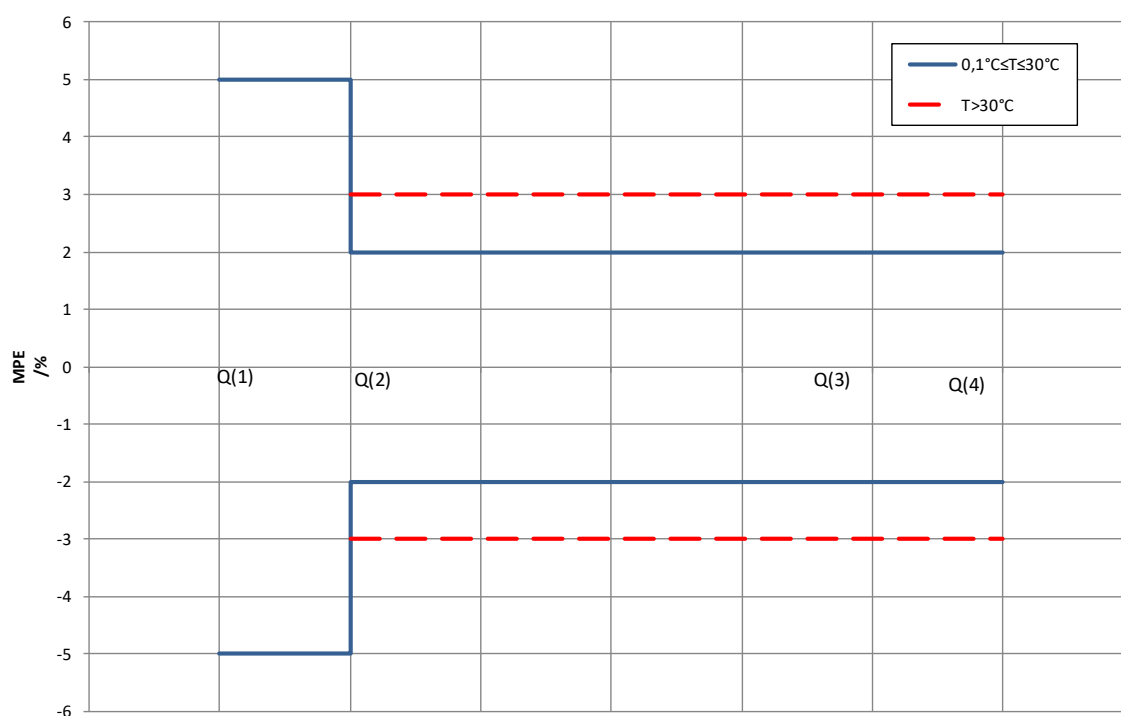
The sensor **MS2500** diameters below, coupled with **MV255** are certified in accordance with European directive 2014/32/EU category MI-001

SIZE		Q3	Q2	Q1	R
mm	inch	m3/h			Q3/Q1
25	1	16	0.16	0.10	160
32	1 ¼	25	0.25	0.16	
40	1 ½	40	0.40	0.25	
50	2	63	0.63	0.40	
65	2 ½	100	1.0	0.63	
80	3	160	1.6	1.0	
100	4	250	2.5	1.6	
125	5	400	4.0	2.5	
150	6	630	6.3	4.0	
200	8	1000	10	6.3	
250	10	1600	16	10	
300	12	2500	25	16	
350	14	2500	25	16	
400	16	4000	40	25	
450	18	4000	40	25	
500	20	6300	63	40	
600	24	10000	100	63	
650	26	10000	100	63	
700	28	10000	100	63	
750	30	10000	160	100	
800	32	16000	160	100	100
900	36	16000	160	100	
1000	42	16000	250	160	80
1200	48	16000	320	200	
1400	56	16000	320	200	
1600	64	16000	320	200	40
1800	72	16000	640	400	
2000	80	16000	640	400	

MPE - OIML R49 ACCURACY CLASS 1 (OIML R 49-1:2013 (E) - ISO4064-1:2017)



MPE - MI 001 - OIML R49 ACCURACY CLASS 2 (OIML R 49-1:2013 (E) - ISO4064-1:2017)



HOW TO ORDER

CODE/ EXAMPLE		CODE/DESCRIPTION
Display		
B	A	Blind version (without display and programming keys, USB cable type A / USB Mini B is Required for programming)
	B	Graphic LCD WSTN - B/W - back light display, point matrix 128 x 64, 8 line/16 characters and 3 programming keys (REQUIRED FOR MID MI-001)
Housing material		
0	0	Nylon PA6 with fiber glass (IP67 only)
	1	Painted aluminum die casting
Version / Protection rate		
A	A	Compact version IP67
	B	Separate version for wall mounting, complete with aluminium mounting accessories (use C015/C016 cable MAX LENGTH 20 m) - IP67
	C	Compact version with display visible from the top - IP67
	D	Compact version - IP68 - for aluminium housing [up to 5 MIL connectors]
	E	Compact version with display visible from the top - IP68 1,5 meters - ONLY aluminium housing [up to 5 MIL connectors]
	F	Separate version for wall mounting, complete with aluminium mounting accessories (use C015/C016 cable MAX LENGTH 20 m) - IP68 - for aluminium housing [up to 5 MIL connectors]
	G	Compact version with display visible from the top - IP68 - ONLY for Nylon PA6 housing [up to 2 MIL connectors]
Main Power supply		
0	0	Without Main Power Supply (MANDATORY IF BATTERY ALKALINE OR LITHIUM ARE SELECTED)
	1	Power supply : 100 ... 240 VAC- 45/66 Hz + Rechargeable Battery 3,7 V - 5200 mAh (NOT ALLOWED WITH ALKALINE OR LITHIUM BATTERIES)
	2	Power supply : 12...48 VDC + Rechargeable Battery 3,7 V - 5200 mAh (NOT ALLOWED WITH ALKALINE OR LITHIUM BATTERIES)
Batteries		
A	A	Without Batteries (MANDATORY IF MAIN POWER SUPPLY IS SELECTED)
	B	2 Lithium thionyl chloride batteries (n° 1 on slot 1 - n° 1 on slot 2)
	C	4 Lithium thionyl chloride batteries (n° 2 on slot 1 - n° 2 on slot 2)
	D	6 Lithium thionyl chloride batteries (n° 3 on slot 1 - n° 3 on slot 2)
	E	6 Alkaline or NiMH batteries SIZE D (on slot 3)
	F	Board set for Lithium (slot 1-2) (Batteries NOT Supplied)
	G	Board set for Alkaline (slot 3) (Batteries NOT Supplied)
Analog Input/Output		
0	0	Without Analog Input/Output
	1	N° 1 Input for n° 1 pressure sensor (pressure sensor to be ordered separately)
	2	N° 2 Inputs for n° 2 pressure sensors (pressure sensors to be ordered separately)
	3	N° 1 Input for n° 1 PT 100/500/1000 THERMAL PROBE (probe to be ordered separately)
	4	N° 2 Inputs for n° 2 PT 100/500/1000 THERMAL PROBE (probes to be ordered separately)
	5	N° 1 Analog Output (4/20 mA) - Active or Passive (by wiring) if the Main Power is SELECTED ; ONLY PASSIVE if powered by BATTERIES
	6	Option 1 + 5
	7	Option 2 + 5
	8	Option 3 + 5
	9	Option 4 + 5
	a	Option 1 + 3
	b	Option 1 + 3 + 5

Digital Input/Output		
A	A	Without Digital Input/Output
	B	N° 2 ON/OFF output (max 50 Hz - max 100 mA) + N° 1 ON/OFF input
	C	N° 4 ON/OFF output (max 50 Hz - max 100 mA) + N° 3 ON/OFF input
Communication Gateway		
	5	4G communication module with antenna on the housing
	6	4G communication module with 3 meters cable antenna
	7	4G communication module with antenna on the housing with DNP3 protocol
	8	4G communication module with 3 meters cable antenna with DNP3 protocol
	9	Others
Data Logger		
A	A	MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock)
	B	MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock) + BIV (Built In Vericator)
	C	MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock) + Meter Data (Real Time Converter & Sensor Data on SD Memory)
	D	MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock) + BIV + Meter Data
Special Features		
0	0	None
	1	WITH ANTICONDENSE CAP
Connectors for POWER SUPPLY and CABLES FROM SENSOR (Separate Version) (Maximum 5 connectors including IN/OUT connectors - n.2 connectros if "Version/Protection reate" Option B)		
A	A	NONE
	B	POWER SUPPLY (n.1 connector) [with "Version / Protection rate" option "G" only 1 connector available for I/O modules]
	C	SEPARATE VERSION (n. 2 connectors) [Not available for "Version / Protection rate" option "G"]
	D	POWER SUPPLY (n.1 connector) + SEPARATE VERSION (n.2 connectors) [Not available for "Version / Protection rate" option "G"]
Connectors for INPUTS/OUTPUTS (Maximum 5 connectors including IN/OUT connectors - n.2 connectros if "Version/Protection reate" Option B)(other combinations on request)		
0	0	No Connectors for I/O modules
	1	TOT n.1 Connectors , Connector 1: n.1 pressure/temperature
	2	TOT n.2 Connectors Connector 1: n.1 pressure/temperature Connector 2: n.1 pressure/temperature [Not available for "Version / Protection rate" option "G" + "Connectors for POWER SUPPLY and SEPARATE VERSION CABLES " option "B"]
	3	TOT n.1 Connectors Connector 1: n.2 digital OUT + n.1 Digital IN
	5	TOT n.2 Connectors Connector 1: n.1 pressure/temperature Connector 2: n.2 digital OUT + n.1 Digital IN [Not available for "Version / Protection rate" option "G" + "Connectors for POWER SUPPLY and SEPARATE VERSION CABLES " option "B"]
	6	TOT n.1 Connectors Connector 1: n.2 digital OUT + n.1 analog OUT + n.1 analog OUT
	7	TOT n.2 Connectors Connector 1: n.1 pressure/temperature Connector 2: n.1 pressure/temperature Connector 3: n.2 digital OUT + n.1 Digital IN [Not available for "Version / Protection rate" option A/B/C/D/E/F + "Connectors for POWER SUPPLY and SEPARATE VERSION CABLES " option "D" and "Version / Protection rate" option "G"]
	8	TOT n.2 Connectors Connector 1: n.1 pressure/temperature Connector 2: n.2 digital OUT + n.1 analog OUT + n.1 analog OUT [Not available for "Version / Protection rate" option "G" + "Connectors for POWER SUPPLY and SEPARATE VERSION CABLES " option "B"]
MID Approval		
A	A	NONE
	B	MI-001 CLASS 2

Example of
complete code
to order

MV255-B0A0A0A0A0A0

ISOIL INDUSTRIA S.p.A.

HEAD OFFICE	SERVICE
Via Fratelli Gracchi, 27 20092 Cinisello Balsamo (MI) Tel +39 02 66027.1 sales@isoil.it	service@isoil.it

If you want to find the complete list of our distributors access at the following link:
<http://www.isoil.it/en>



Due to the constant technical development and improvement of its products, the manufacturer reserves the right to make changes and/or modify the information contained in this document without notice.