

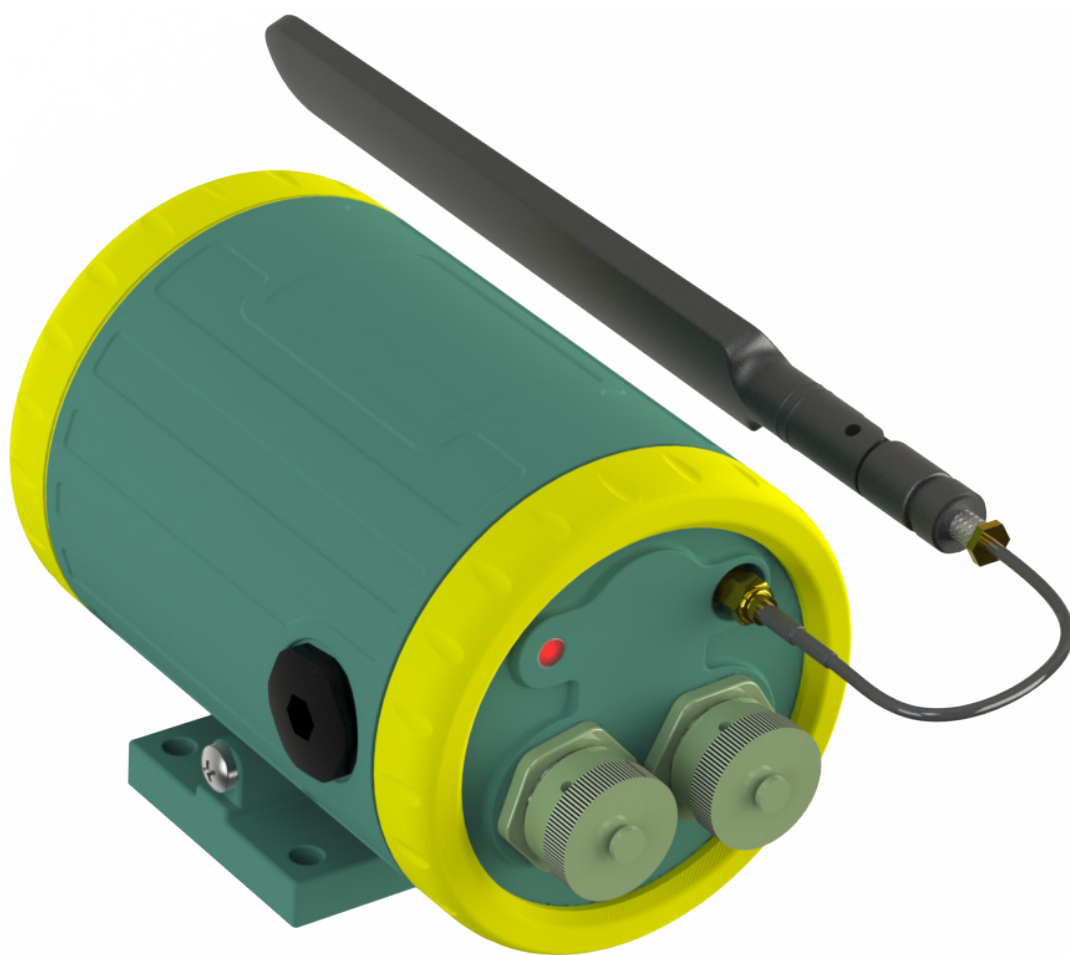


ISOMAG

The friendly magmeter

DATA SHEET

MV155



CE

ISOIL 
I N D U S T R I A



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TECHNICAL DATA

OVERALL FEATURES

Altitude	☐ -200 m up to 4000 m
Ambient Temperature	☐ -10... +60°C / +14...+140 °F
Humidity Range	☐ 0÷100%

STANDARD FEATURES

Housing materials	☐ Nylon reinforced with 15% of fiber glass
Protection Rate	☐ IP 68
Power Supply/Consumption	☐ max 2,5 W
Electrical Connections	☐ 10 poles MIL connectors
Data Storage	☐ Values storing system in case of power failure
Programming Plug In	☐ USB port for the connection to PC (USB cable type A/USB MINI B is required for the programming)
Communication Gateway	☐ 4G communication module
Data Logger	☐ MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock)
Diagnostic Funct.	☐ Yes
CE Certification	☐ Yes

OPTIONAL FEATURES

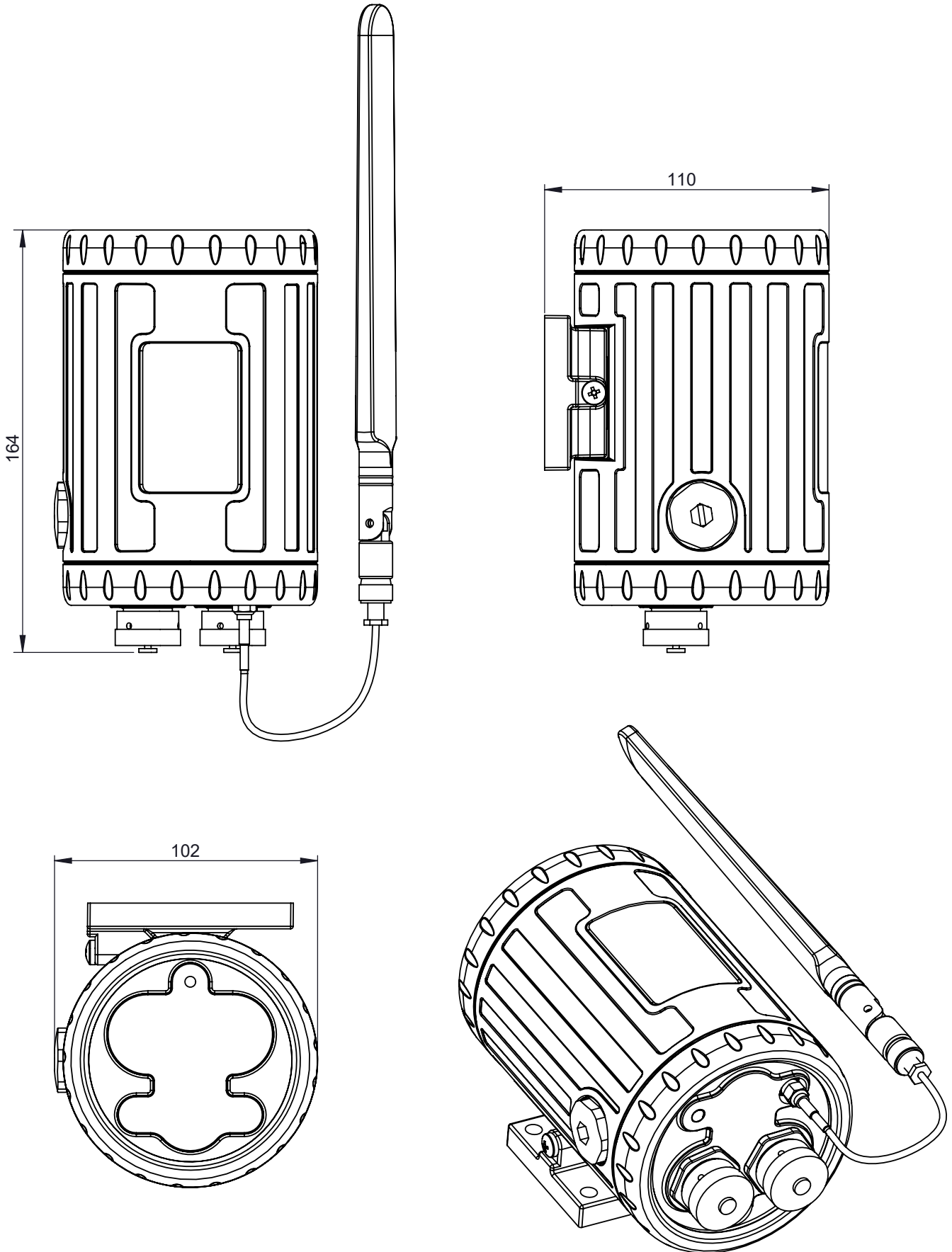
(CHECK HOW TO ORDER, AT LAST PAGE, FOR MORE DETAILS)

Power Supply	☐ 4 Lithium thionyl chloride batteries ☐ 4 Alkaline or NiMh batteries SIZE D ☐ Board set for Lithium (Batteries NOT Supplied) ☐ Board set for Alkaline (Batteries NOT Supplied) ☐ 4 Lithium thionyl chloride batteries + power supply from LOW VOLTAGE 9-36 VDC ☐ 4 Alkaline batteries + power supply from LOW VOLTAGE 9-36 VDC ☐ Board set for Lithium (Batteries NOT Supplied) + power supply from LOW VOLTAGE 9-36 VDC ☐ Board set for Alkaline (Batteries NOT Supplied) + power supply from LOW VOLTAGE 9-36 VDC
Analog Input	☐ N° 1 (Voltage) ☐ Until N° 3 (Current) ☐ N° 2 (Pressure) ☐ N° 2 (Temperature)
Digital Input	☐ N° 4 Counter (factorized pulses) ☐ Until N°6 Alarms (Status)
Digital Output	☐ N° 2 programmable (AC-DC)
Communication Gateway	☐ 4G communication module with DNP3 Protocol
Special features	☐ With ONE 10 poles PLUG already connected to 2 meters of 10 poles cable ☐ With TWO 10 poles PLUG already connected to 2 meters of 10 poles cable

ACCURACY

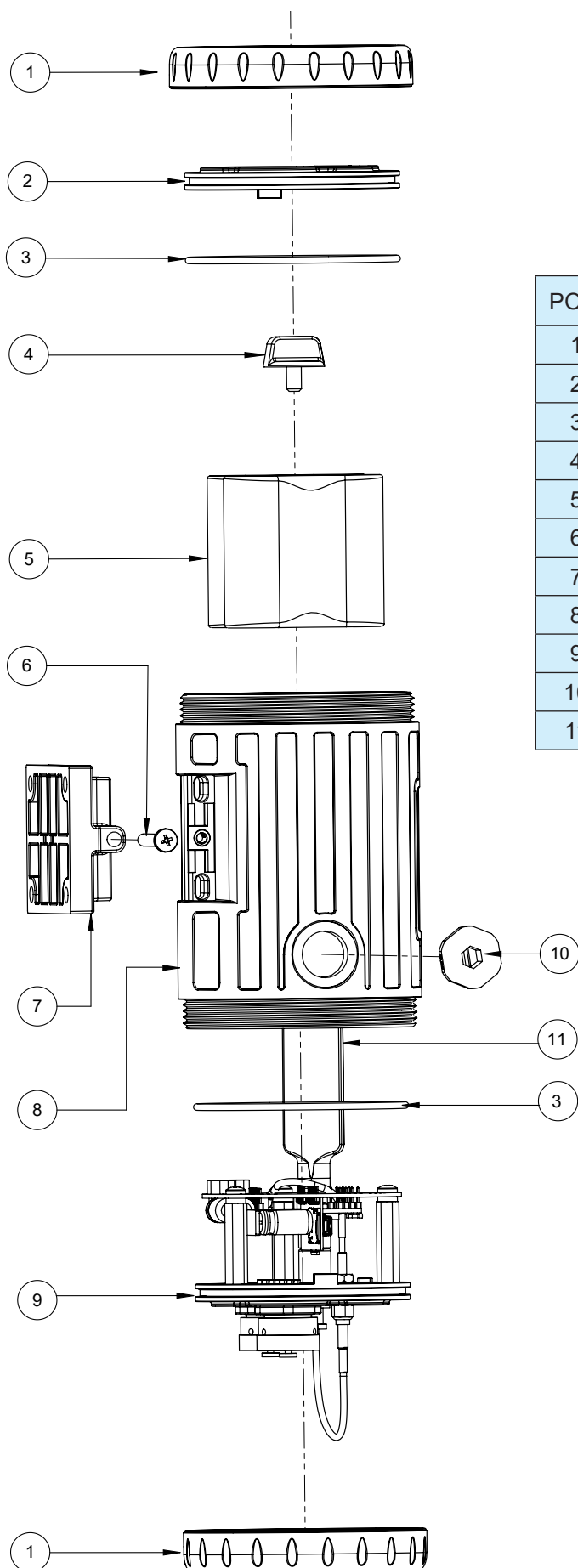
Measurement error	☐ Flow rate (volume) = $\pm 0,5\%$ r.v ☐ Out 4/20 mA = $\pm 0,5\%$ r.v ☐ Frequency Out = $\pm 0,5\%$ r.v
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MV155 OVERALL DIMENSIONS



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

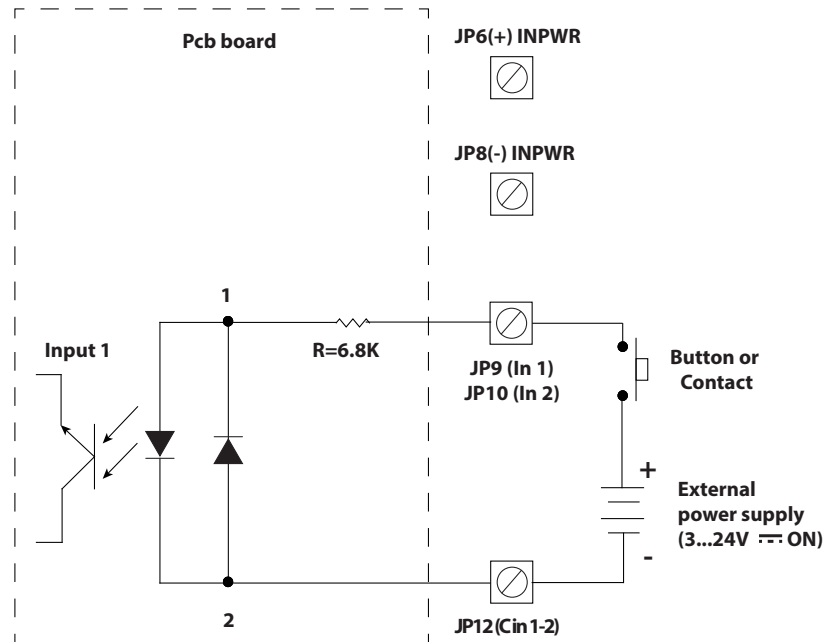
MV155 LAYOUT



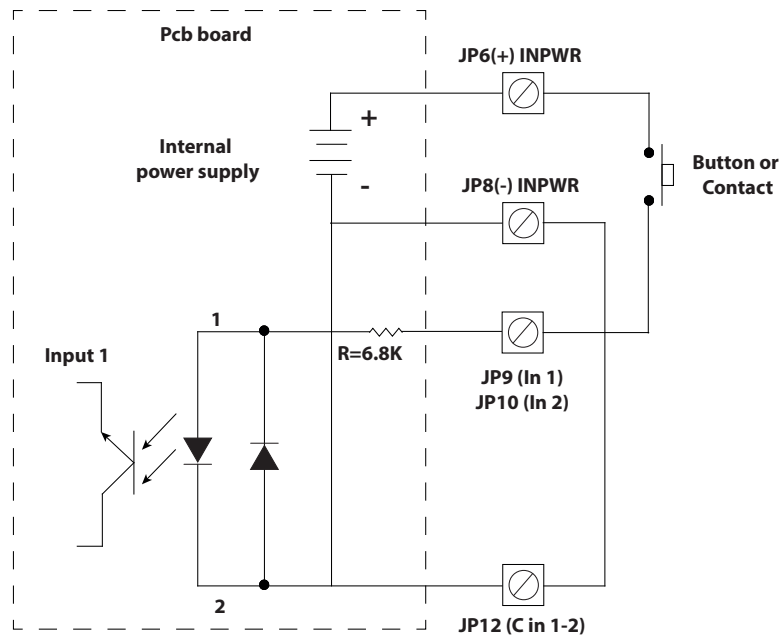
POS.	DESCRIPTION
1	MAIN THREADED RING
2	CLOSING DISK
3	O-RING 3325 NBR
4	BATTERY FIXING SCREW
5	BATTERY
6	SCREW M5 x 40 TC INOX
7	WALL FIXING BRACKET
8	MAIN CASE
9	ASSEMBLED PCB
10	CAP PG13.5
11	KIT ANTENNA

DIGITAL INPUT -STATUS/ALARMS

- On/off Input (external power supply)

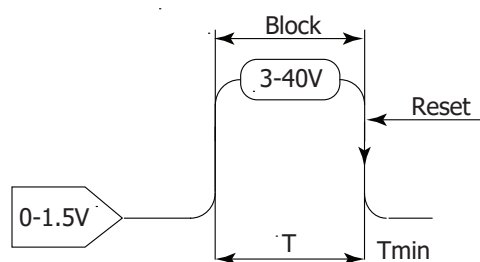


- On/off Input (internal power supply)

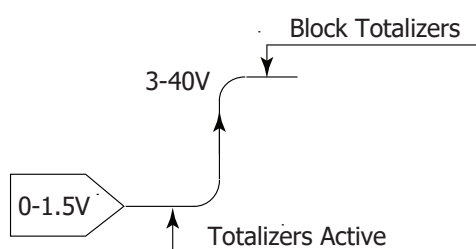


ON / OFF inputs operating mode (status)

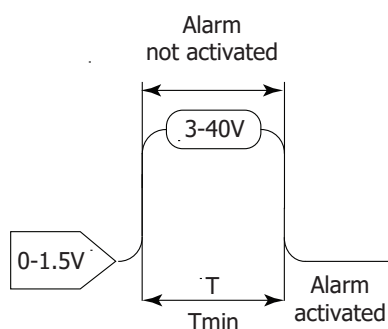
❑ Totalizers reset



❑ Totalizers block

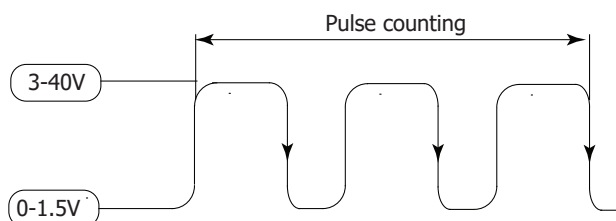


❑ Input status

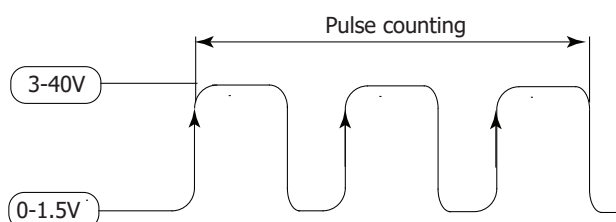


Counting inputs operating mode (front)

❑ With internal power supply

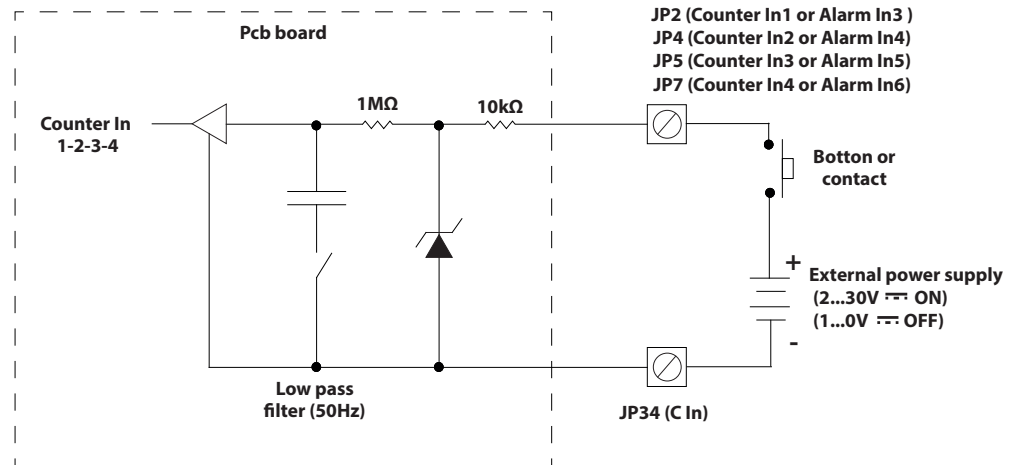


❑ With external power supply

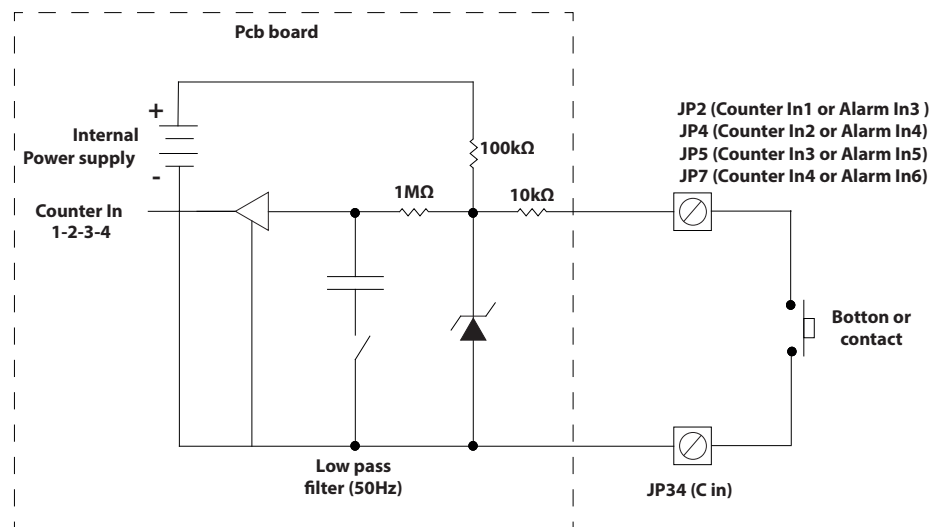


DIGITAL INPUTS - COUNTERS/ALARMS (selected by order code)

Counter/ Alarm inputs (External power supply)

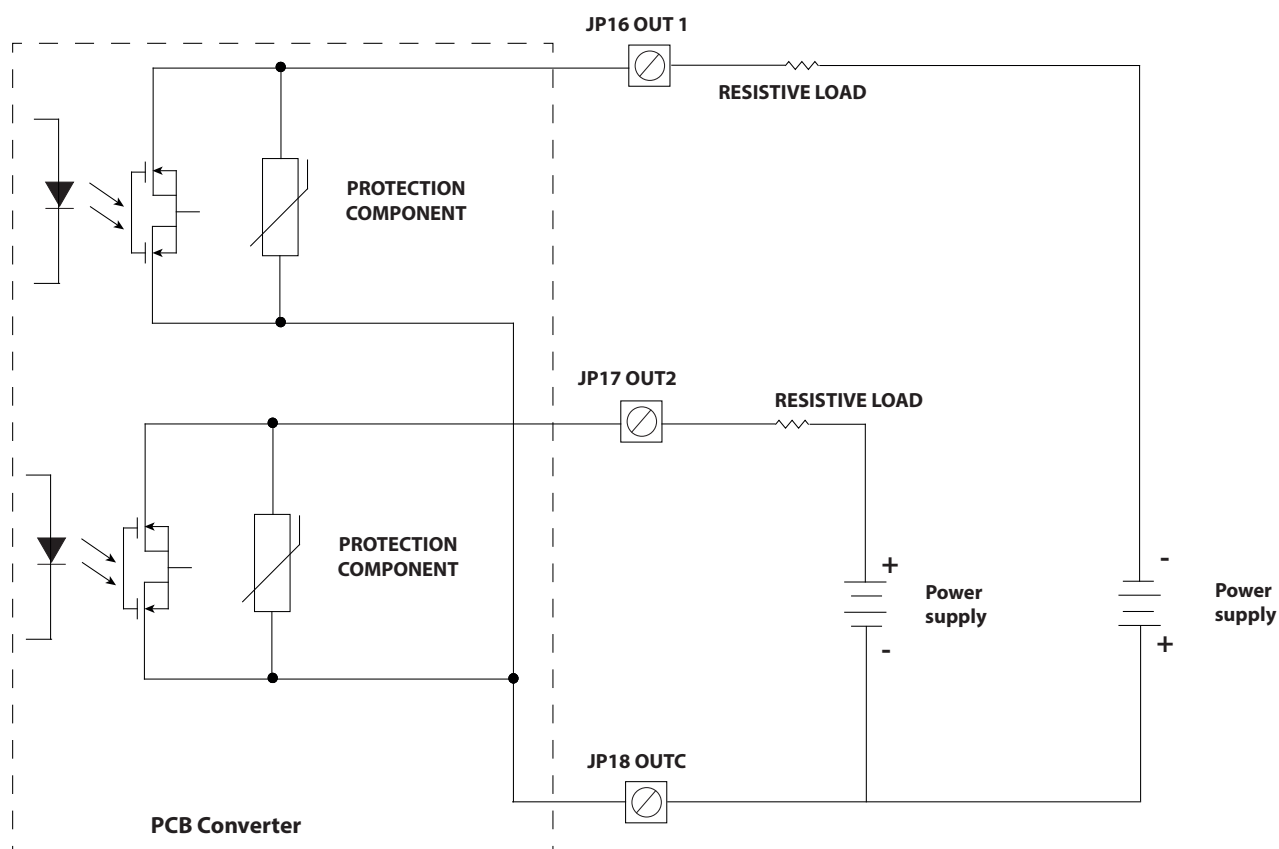


Counters/Alarm inputs (Internal power supply)

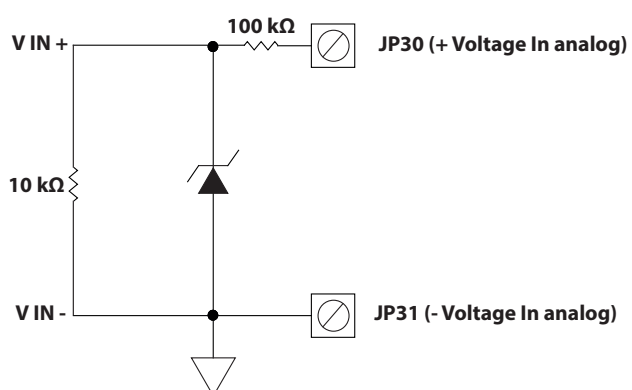


N.B: When ordering, the same inputs can be assigned as an alternative to the status inputs (ALARM)

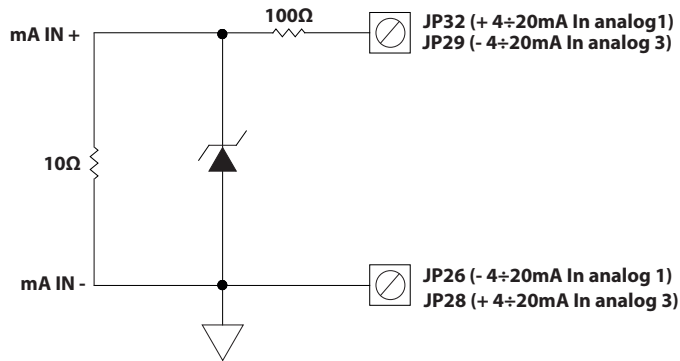
ON/OFF OUTPUTS



ANALOG INPUTS - VOLTAGE

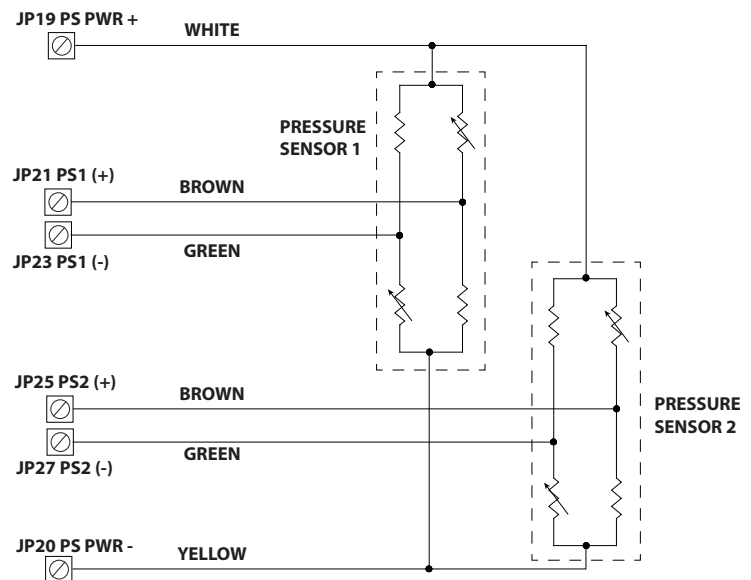


ANALOG INPUTS - 4÷20mA

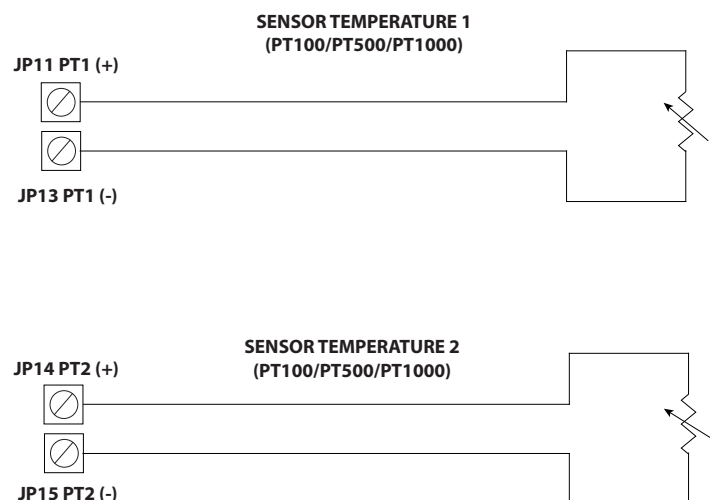


ANALOG INPUTS - PRESSURE AND TEMPERATURE (transducer only)

Connecting the pressure sensors

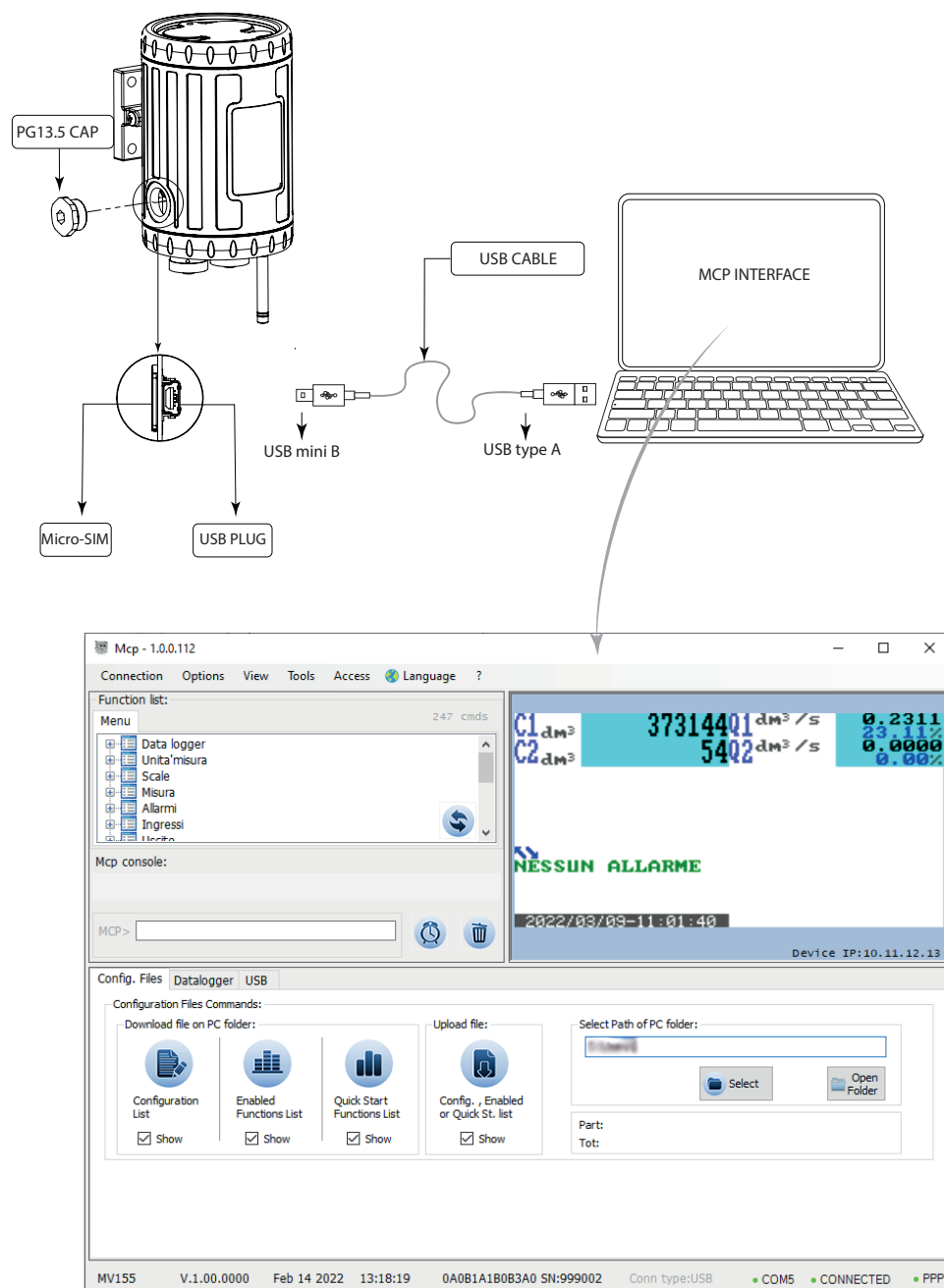


Connecting the temperature sensors



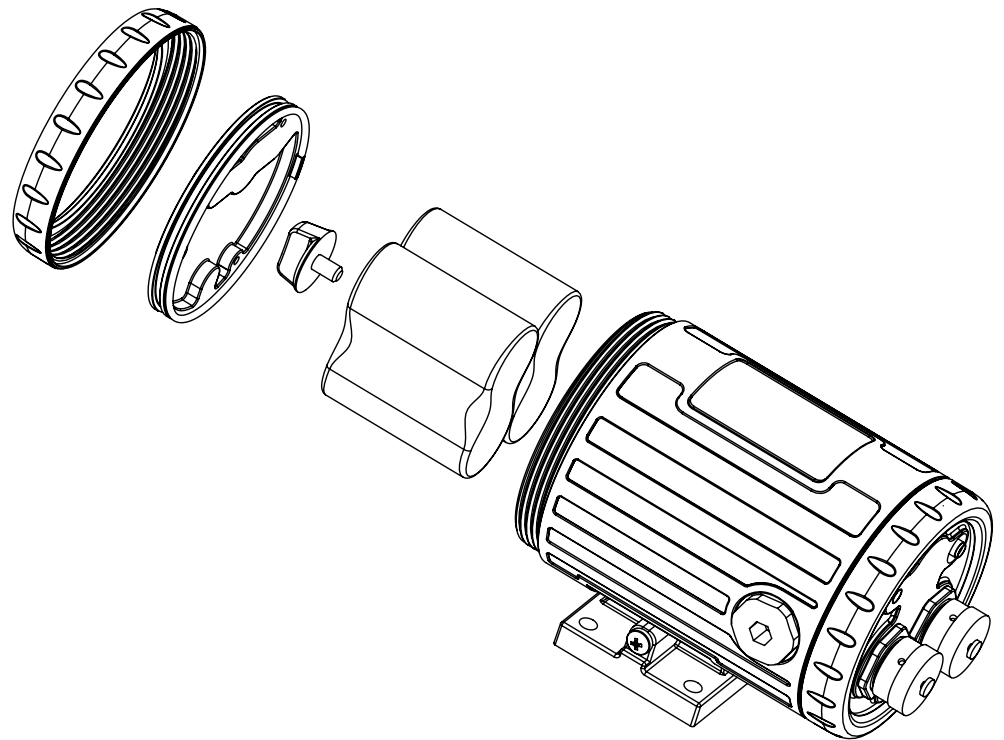
CONVERTER ACCESS

ACCESS TO SIM-USB PORT

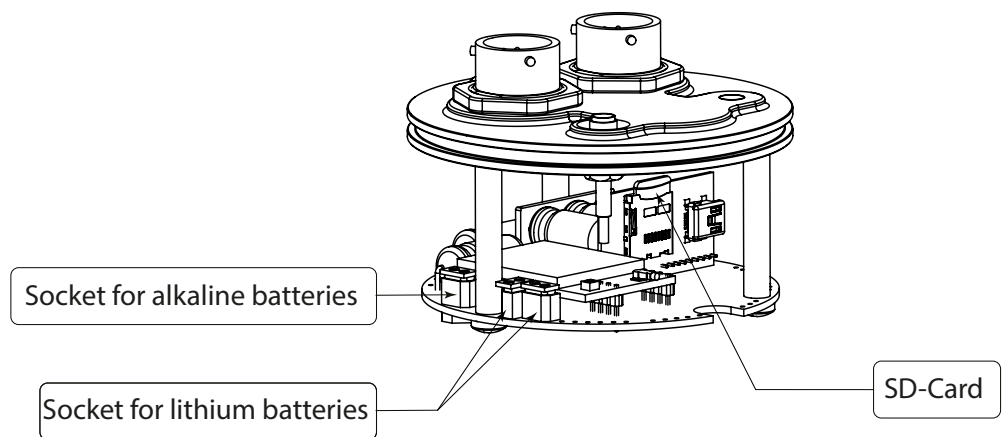


The converter can be programmed by MCP INTERFACE: a real time interface between converter and PC.

ACCESS TO BATTERY SIDE



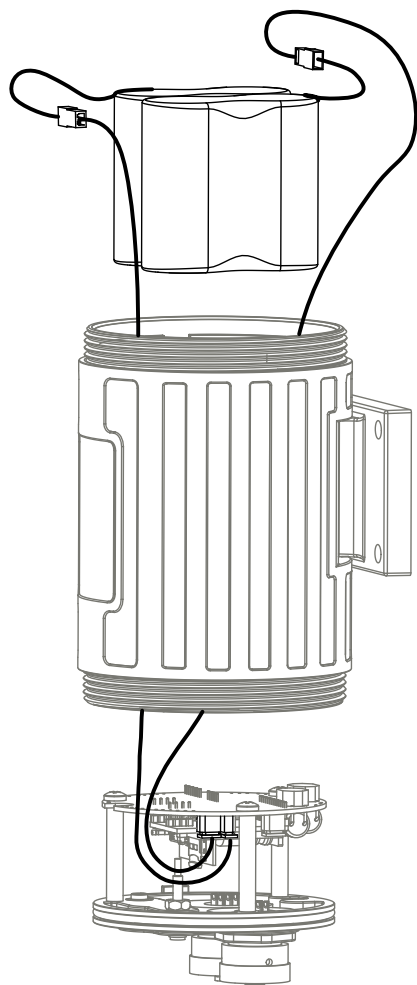
PCB MAIN PARTS



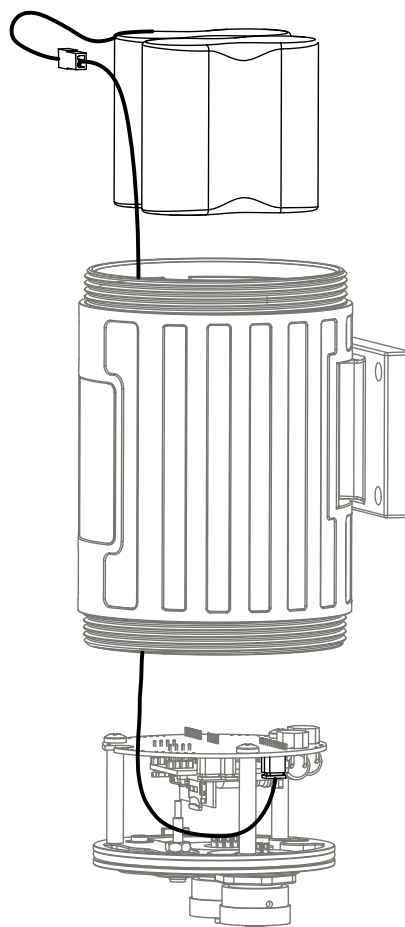
POWER SUPPLY

Batteries configuration

LITHIUM BATTERIES CONNECTIONS

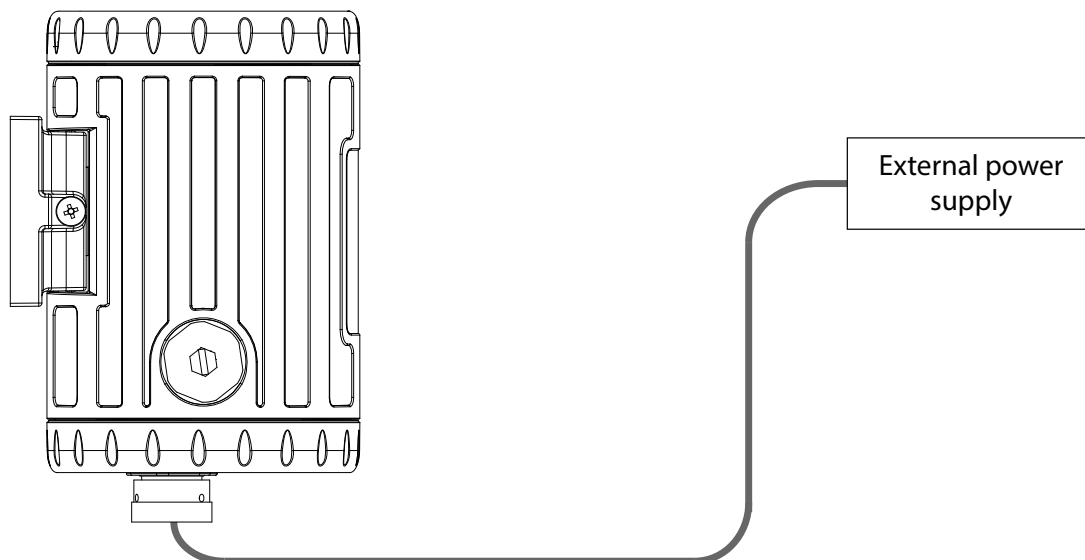


ALKALINE BATTERIES CONNECTIONS

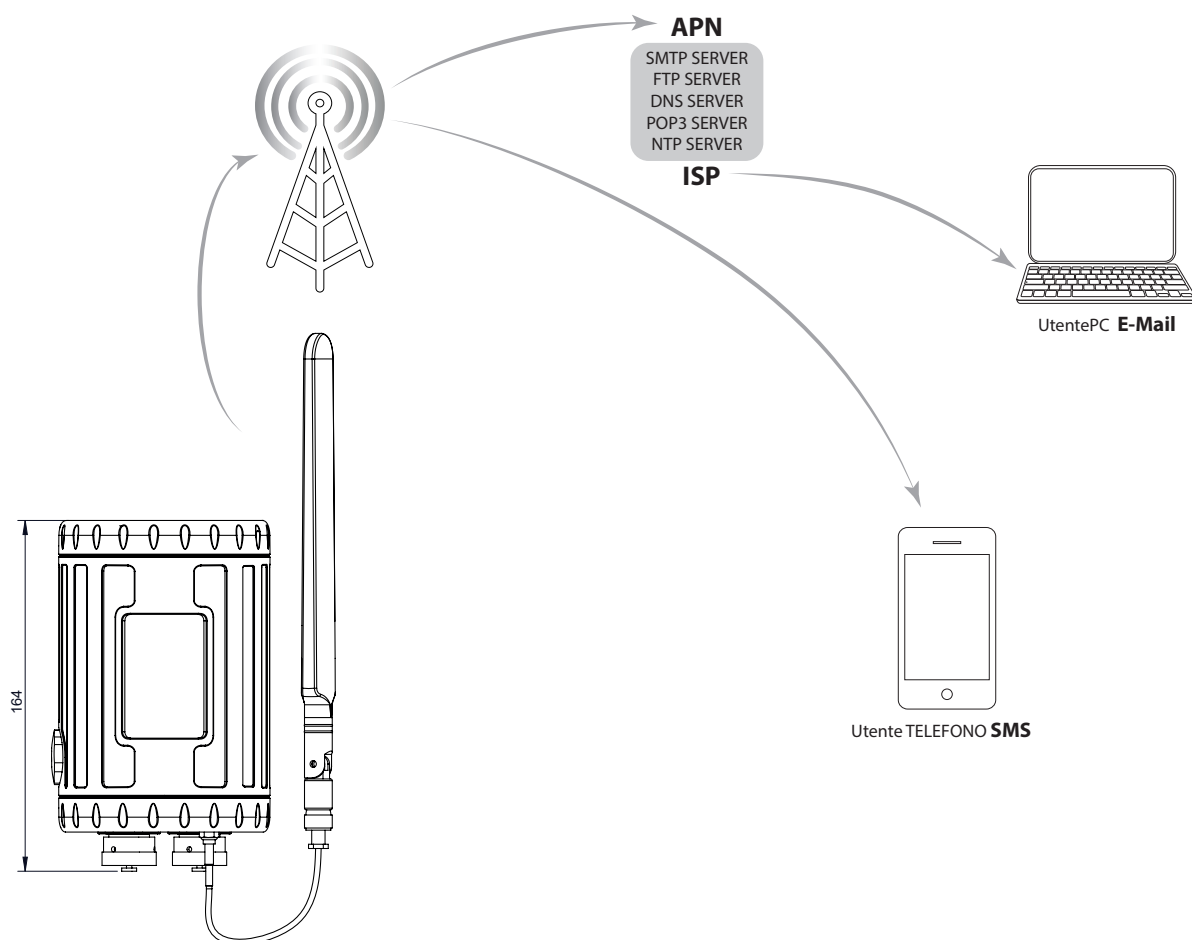


Power supply by photovoltaic panel

External power supply from low voltage (9-36 VDC)
connected to the MV155 connectors



CONNECTION 4G



- ❑ With the 4G connection it is possible to remotely check the status of the device and the saved loggers. Il convertitore MV155 può inviare dati elaborati e memorizzati a diversi dispositivi tramite SMS e/o e-mail
- ❑ Communication takes place via UMTS / GPRS technology, using data packets conveyed through various levels of protocols and hardware devices, as described below:
- ❑ Dati -> Compressione (ZIP) -> **SMTP/POP3/FTP** -> **SSL** -> **TCP/IP** -> **PPP** -> **UMTS/GPRS** -> **RADIO LINK**

SMTP and POP3 are protocols for the transfer of data via email between a client and a server

FTP is a protocol for direct file transfer between a client (counter) and a server

SSL is an intermediate layer dedicated to security that deals with encrypting and authenticating the data stream in order 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.

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

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

FUNCTIONS MENU

DATA LOGGER

MAIN MENU				
1	Data logger			
2	Units			
3	Scales			
4	DATA LOGGER			
5	D.logger en.	ON	1.1	Data logger sampling enable
6	Meas.units	ON	1.2	Measure units recording enable
7	Field separ.	;	1.3	Field separator character
8	Var.p.Fields *	OFF	1.4	D.logger variable position fields
9	Decim.separ.	.	1.5	Decimal separator character
10	Log %	OFF	1.6	Percentage values logging enable
11	Interv.	0:01:00	1.7	Sampling interval
12	Log C1	ON	1.8	Counter C1 logging enable
	C1 reset	ON	1.9	Counter C1 reset every 24h
	Log C2	OFF	1.10	Counter C2 logging enable
	C2 reset	OFF	1.11	Counter C2 reset every 24h
	Log C3	OFF	1.12	Counter C3 logging enable
	C3 reset	OFF	1.13	Counter C3 reset every 24h
	Log C4	OFF	1.14	Counter C4 logging enable
	C4 reset	OFF	1.15	Counter C4 reset every 24h
	Log Q1	OFF	1.16	Flow rate Q1 logging enable
	Log Q2	OFF	1.17	Flow rate Q2 logging enable
	Log Q3	OFF	1.18	Flow rate Q3 logging enable
	Log Q4	OFF	1.19	Flow rate Q4 logging enable
	Log P1	OFF	1.20	Pressure P1 logging enable
	Log P2	OFF	1.21	Pressure P2 logging enable
	Log PD	OFF	1.22	Pressure Delta logging enable
	Log T1	OFF	1.23	Temperature T1 logging enable
	Log T2	OFF	1.24	Temperature T2 logging enable
	Log M1	OFF	1.25	Measure M1 logging enable
	Log M2	OFF	1.26	Measure 2 logging enable
	Log M3	OFF	1.27	Measure 3 logging enable
	Log.w.Ham.	OFF	1.28	Water hammer logging enable
	Log AL.EV	OFF	1.29	Alarm events logging enable
	Log DIAG	OFF	1.30	Diagnostic values logging enable

UNITS

MAIN MENU				
1	Data logger			
2	Units			
3	Scales			
4	UNITS			
5	Pls1	METRIC	2.1	Pulse C1 unit of measure type
6	Pls1	dm3,1.00000	2.2	Pulse counter C1 volume value
7	C1 unit	METRIC	2.3	Counter C1 unit of measure type
8	C1 unit	(dm3)	2.4	Counter C1 unit of measure
9	C1 D.P.	0	2.5	Count.C1 Decimal point position
10	Pls2	METRIC	2.6	Pulse C2 unit of measure type
11	Pls2	dm3,1.00000	2.7	Pulse counter C2 volume value
12	C2 unit	METRIC	2.8	Counter C2 unit of measure type
	C2 unit	(dm3)	2.9	Counter C2 unit of measure
	C2 D.P.	0	2.10	Count.C2 Decimal point position
	Pls3	METRIC	2.11	Pulse C3 unit of measure type
	Pls3	dm3,1.00000	2.12	Pulse counter C3 volume value
	C3 unit	METRIC	2.13	Counter C3 unit of measure type
	C3 unit	(dm3)	2.14	Counter C3 unit of measure
	C3 D.P.	0	2.15	Count.C3 Decimal point position
	Pls4	METRIC	2.16	Pulse C4 unit of measure type
	Pls4	dm3,1.00000	2.17	Pulse counter C4 volume value
	C4 unit	METRIC	2.18	Counter C4 unit of measure type
	C4 unit	(dm3)	2.19	Counter C4 unit of measure
	C4 D.P.	0	2.20	Count.C4 Decimal point position
	Temp.unit	°C	2.21	Temperature unit of measure
	M1 unit		2.22	Measure M1 prog.unit of meas.
	M2 unit		2.23	Measure M2 prog.unit of meas.
	M3 unit		2.24	Measure M3 prog.unit of meas.

SCALES

1	MAIN MENU
2	1-Data logger
3	2-Units
4	3-Scales
5	4-Measure
6	5-Alarms
7	6-Inputs
8	7-Outputs
9	8-Settings
10	9-About
11	10-Factory reset
12	11-Exit

SCALE

1	Q1	dm3/s,1.000000	3.1	Flow rate Q1 full scale
2	Q2	dm3/s,1.000000	3.2	Flow rate Q2 full scale
3	Q3	dm3/s,1.000000	3.3	Flow rate Q3 full scale
4	Q4	dm3/s,1.000000	3.4	Flow rate Q4 full scale
5	P1	kPa,1.0000	3.5	Pressure P1 full scale
6	P2	kPa,1.0000	3.6	Pressure P2 full scale
7	M1	,1.0000	3.7	Measure M1 full scale
8	M2	,1.0000	3.8	Measure M2 full scale
9	M3	,1.0000	3.9	Measure M3 full scale

1	MAIN MENU
2	1-Data logger
3	2-Units
4	3-Scales
5	4-Measure
6	5-Alarms
7	6-Inputs
8	7-Outputs
9	8-Settings
10	9-About
11	10-Factory reset
12	11-Exit

MEASURE

1	C1 mode	ACTIVE	4.1	Counter C1 trigger mode
2	C1 Freq	LOW	4.2	Counter C1 frequency range
3	C1 time	10(s)	4.3	Counter C1 integration time
4	C2 mode	ACTIVE	4.4	Counter C2 trigger mode
5	C2 Freq	LOW	4.5	Counter C2 frequency range
6	C2 time	10(s)	4.6	Counter C2 integration time
7	C3 mode	ACTIVE	4.7	Counter C3 trigger mode
8	C3 Freq	LOW	4.8	Counter C3 frequency range
9	C3 time	10(s)	4.9	Counter C3 integration time
10	C4 mode	ACTIVE	4.10	Counter C4 trigger mode
11	C4 Freq	LOW	4.11	Counter C4 frequency range
12	C4 time	10(s)	4.12	Counter C4 integration time
13	P.S.S.1	(mV/V)	4.13	Pressure sensor 1 sensitivity
14	P.S.S.2	(mV/V)	4.14	Pressure sensor 2 sensitivity
15	Pr.c.off	(%)	4.15	Press.inputs P1 P2 cut-off value
16	WH.det.tm	(s)	4.16	W.hammer det.acquisition time
17	WH1	(kPa)	4.17	Water hammer detection thresh.1
18	WH2	(kPa)	4.18	Water hammer detection thresh.2
19	M1 range	0..1(V)	4.19	Analog input M1 range
20	M1 c.off	(%)	4.20	Analog input M1 cut-off value
21	M2 range	0..1(V)	4.21	Analog input M2 range
22	M2 range	+/-	4.22	Analog input M2 range
23	M2 c.off	(%)	4.23	Analog input M2 cut-off value
24	M3 range	4..20(mA)	4.24	Analog input range M3
25	M3 c.off	(%)	4.25	Analog input M3 cut-off value
26	Q1 in	PULSES	4.26	Flow rate Q1 input channel
27	Q2 in	PULSES	4.27	Flow rate Q2 input channel
28	Q3 in	PULSES	4.28	Flow rate Q3 input channel

MEASURE

MAIN MENU
1-Data logger
2-Units
3-Scales
4-Measure
5-ALARMS
6-Inputs
7-Outputs
8-Communication
9-Display
10-Functions
11-Diagnostic
12-System

ALARMS

Q1M	(dm ³ /s)	5.1	Flow Rate q1 Alarm maX
Q1m	(dm ³ /s)	5.2	Flow Rate q1 Alarm miN
Q1h	(dm ³ /s)	5.3	Flow Rate q1 HYSteresis
Q2M	(dm ³ /s)	5.4	Flow Rate q2 Alarm maX
Q2m	(dm ³ /s)	5.5	Flow Rate q2 Alarm miN
Q2h	(dm ³ /s)	5.6	Flow Rate q2 HYSteresis
Q3M	(dm ³ /s)	5.7	Flow Rate q3 Alarm maX
Q3m	(dm ³ /s)	5.8	Flow Rate q3 Alarm miN
Q3h	(dm ³ /s)	5.9	Flow Rate q3 HYSteresis
Q4M	(dm ³ /s)	5.10	Flow Rate q4 Alarm maX
Q4m	(dm ³ /s)	5.11	Flow Rate q4 Alarm miN
Q4h	(dm ³ /s)	5.12	Flow Rate q4 HYSteresis
P1M	(kPa)	5.13	Pressure p1 alarm MAX
P1m	(kPa)	5.14	Pressure p1 alarm MIN
P1h	(kPa)	5.15	Pressure p1 HYSteresis
P2M	(kPa)	5.16	Pressure p2 alarm MAX
P2m	(kPa)	5.17	Pressure p2 alarm MIN
P2h	(kPa)	5.18	Pressure p2 HYSteresis
PDM+	(kPa)	5.19	Pressure Delta pd Positive alarm MAX
PDM+	(kPa)	5.20	Pressure Delta pd Positive alarm MIN
PDM-	(kPa)	5.21	Pressure Delta pd Negative alarm MAX
PDM-	(kPa)	5.22	Pressure Delta pd Negative alarm MIN
PDh	(kPa)	5.23	Pressure Delta pd HYSteresis
M1M	()	5.24	Measure m1 alarm MAX
M1m	()	5.25	Measure m1 alarm MIN
M1h	()	5.26	Measure m1 HYSteresis
M2M	()	5.27	Measure m2 alarm MAX
M2m	()	5.28	Measure m2 alarm MIN
M2h	()	5.29	Measure m2 HYSteresis
M3M	()	5.30	Measure m3 alarm MAX
M3m	()	5.31	Measure m3 alarm MIN
M3h	()	5.32	Measure m3 HYSteresis
T1M	(°C)	5.33	Temperature t1 alarm MAX
T1m	(°C)	5.34	Temperature t1 alarm MIN
T2M	(°C)	5.35	Temperature t2 alarm MAX
T2m	(°C)	5.36	Temperature t2 alarm MIN
Th	(°C)	5.37	Temperature HYSteresis
Cfg.ac.al	OFF	5.38	ConFiguRation Access Alarm Enable
P.S.off.al	OFF	5.39	Power Supply Loss Alarm Enable
W.hammer al.	OFF	5.40	Water Hammer Detection Alarm Enable
Wh.r.time	(s)	5.41	Water Hammer Alarm Reset Time

ALARMS

INPUTS

C1 reset	OFF	6.1	CounTer c1 Reset Enable
C2 reset	OFF	6.2	CounTer c2 Reset Enable
C3 reset	OFF	6.3	CounTer c3 Reset Enable
C4 reset	OFF	6.4	CounTer c4 Reset Enable
sys.v.detect	OFF	6.5	SYStem Violation Detect
Flooding det	OFF	6.6	FLOOding Detect
D.ln2	OFF	6.7	Digital INput 2 Function
D.in p.sup.	OFF	6.8	Digital INputs Power Supply

MAIN MENU
1-Data logger
2-Units
3-Scales
4-Measure
5-ALARMS
6-Inputs
7-Outputs
8-Communication
9-Display
10-Functions
11-Diagnostic
12-System

INPUTS

OUTPUTS

OUTPUTS	
Out1	OFF
Out1 inv.	OFF
Out2	OFF
Out2 inv.	OFF
Aux.p.s	OFF
Act.time	(s)

7.1	OUTput 1 Function
7.2	OUTput 1 INVerted status
7.3	OUTput 2 Function
7.4	OUTput 2 INVerted status
7.5	AUXiliary Power Supply
7.6	AUXiliary power supply Activation Time

MAIN	1-Display
2-Inputs	3-Outputs
4-Communication	5-Display
6-Functions	7-Diagnostic
8-System	

COMMUNICATION

COMMUNICATION

Comm.proc.abort		8.1	Communication process abort
Send status		8.2	Send device status information
Send DL Format		8.3	Send data logger fields format
Send WH Format		8.4	Send w.hammer data fields format
Send proc.data		8.5	Send instantaneous process data
Send events		8.6	Send last system logged events
Send alarms		8.7	Send system alarms information
Send l.data		8.8	Send last logged process data
Send w.ham		8.9	Send last water hammer data
Send config.		8.10	Send parameters config.data
Send Fn.enable		8.11	Send functions enable status
Send qs.list		8.12	Send quick start func.list
RTC sync.req.		8.13	Request a RTC synchronization
Check m.box		8.14	Check mail box for new mails
FTP download		8.15	FTP download execute command
WiFi default	0	8.16	Reset WiFi config.to default
Mail send	OFF	8.17	Mail send function enable
Mail rec.	OFF	8.18	Mail receive function enable
FTP upload	OFF	8.19	FTP upload function enable
FTP download	OFF	8.20	FTP download function enable
DNP3 enable	OFF	8.21	DNP3 protocol enable
Rmt.op.acl	4	8.22	Remote operations access level
File compr.	OFF	8.23	File compression enable status
ZIP password		8.24	Compressed archive password
Conn.test	OFF	8.25	Connection test enable
Auto Ev.snd	OFF	8.26	Automatic events send on alarms
Access p.name		8.27	Access point name
Auth.type	OFF	8.28	Access point authentication type
User name		8.29	Access point user name
User password		8.30	Access point password
SMTP User		8.31	User name for SMTP service
SMTP psw.		8.32	Password for SMTP email service
POP3 User		8.33	User name for POP3 service
POP3 psw.		8.34	Password for POP3 email service
FTP User		8.35	User name for FTP service
FTP password		8.36	Password for FTP service
Min.sig.thr	OFF	8.37	Min.antenna signal threshold
Primary DNS	000.000.000.000	8.38	Primary Domain Name Server
Secondary DNS	000.000.000.000	8.39	Secondary Domain Name Server
Retries	3	8.40	Max.number of session retries
Instr.ID		8.41	Instrument identifier string
HELO string		8.42	HELO identification string
Sender addr.		8.43	Email address of sender
Receiver 1		8.44	Email address of receiver 1
Receiver 2		8.45	Email address of receiver 2
SMTP server		8.46	SMTP mail send server name
SMTP sl	OFF	8.47	SMTP secure connection layer
SMTP port	25	8.48	SMTP mail send server port num.
POP3 server		8.49	POP3 mail receive server name

COMMUNICATION

POP3 sl	OFF	8.50	POP3 Secure connection layer
POP3 port	110	8.51	POP3 mail receive serv.port num.
FTP server		8.52	FTP server name or address
FTP port	21	8.53	FTP server port number
FTP secure	OFF	8.54	FTP secure connection enable
FTP data		8.55	FTP root directory for data
FTP events		8.56	FTP root directory for events
FTP commands		8.57	FTP root directory for commands
DNP3 server		8.58	DNP3 server name or address
DNP3 l.src	1	8.59	DNP3 local source address
DNP3 r.dest	0	8.60	DNP3 remote destination address
DNP3 rem.p	20000	8.61	DNP3 remote network port number
DNP3 i.time	3	8.62	DNP3 max.line inactivity time
Cert.check	OFF	8.63	Server identity certif.check
NTP server		8.64	NTP time server name
T.ref	04/03/2022	8.65	Data send time reference
T.DNP	04/03/2022	8.66	DNP3 Data send time reference
InMsTm	OFF,00	8.67	Incoming message check time
ProcST	OFF,00	8.68	Process data send time
LogDST	OFF,00	8.69	Logger data send time
S.Compl.File	OFF	8.70	Send only complete file
Alarm time	OFF	8.71	Alarm minimum send time interval
SMS F.en	OFF	8.72	SMS functions global enable
Auth.number		8.73	Authorized incoming phone number
Mess.recv.1		8.74	Short messages receiver 1
Mess.recv.2		8.75	Short messages receiver 2
Mess.recv.3		8.76	Short messages receiver 3

MAIN
1-D
2-U
3-S
4-M
5-
6-
7-
8-
9-
10-
11-Diagnostic
12-System

DISPLAY

DISPLAY			
Language	GB	9.1	Layout LANGuage
Quick start	OFF	9.2	Quick STart Menu Enable

MAIN
1-D
2-U
3-S
4-M
5-
6-
7-
8-
9-
10-
11-Diagnostic
12-System

FUNCTIONS

FUNCTIONS			
C1 reset		10.1	CouNTer c1 Reset
C2 reset		10.2	CouNTer c2 Reset
C3 reset		10.3	CouNTer c3 Reset
C4 reset		10.4	CouNTer c4 Reset
Load F.default		10.5	Load Factory Default Data
Save F.default		10.6	Save Factory Default Data

MAIN
1-D
2-U
3-S
4-M
5-
6-
7-
8-
9-
10-
11-Diagnostic
12-System

DIAGNOSTIC

DIAGNOSTIC			
Self test			
Diag.sys.val.			
Display measures			
Disp.comm.vars			
SMS test			
SMTP conn test			
POP3 conn.test			
FTP conn.test			
DNP3 conn.test			
SD card info	3972.0MB,Free		
Firmware info	24		
S/N	999999		
WT	0		
TC	285		
11.1	AutoTeSt Immediate Command		
11.2	Diagnostic System VaLueS		
11.3	Diagnostic Measure VaLueS		
11.4	Diagnostic Communication VaLueS		
11.5	Short MesSage TeSt		
11.6	SMtP Connection Test		
11.7	POP3 Connection Test		
11.8	FTP Connection Test		
11.9	DNP3 connection Test		
11.10	SD memory STatus		
11.11	MODeL and Software Version		
11.12	SeRial NuMber		
11.13	Total WorKing TiMe		
11.14	Total Measure CYCles		

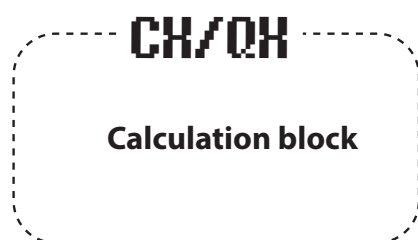
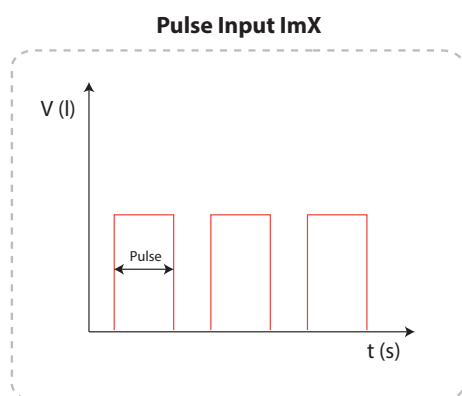
SYSTEM

SYSTEM			
Dayl.saving	OFF		
Time zone	(h)		
Date/time	41		
L1 code	10000000		
L2 code	20000000		
L3 code	30000000		
L4 code	40000000		
L5 code	57291624		
L6 code	0		
Restr.access	OFF		
Device IP addr	10.011.012.013		
Client IP addr	10.011.012.012		
Network mask	255.255.255.254		
Stand-by			
FW update			
12.1	Daylight Saving Time Enable		
12.2	Time ZONE		
12.3	Date and TIME		
12.4	Level 1 Access CoDe		
12.5	Level 2 Access CoDe		
12.6	Level 3 Access CoDe		
12.7	Level 4 Access CoDe		
12.8	Level 5 Access CoDe		
12.9	Level 6 Access CoDe		
12.10	ReStricted Access Rule Enable		
12.11	Device IPADdress		
12.12	Client IPADdress		
12.13	NETWork MaSk		
12.14	System STanDBY		
12.15	FirmWare UPDate		

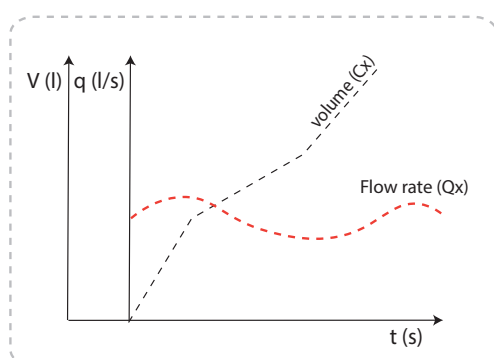
GENERAL DESCRIPTIONS

The instruments is designed to acquire and register various measures on Data Logger:

Flow rate and volume measure

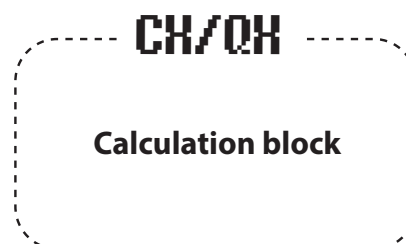
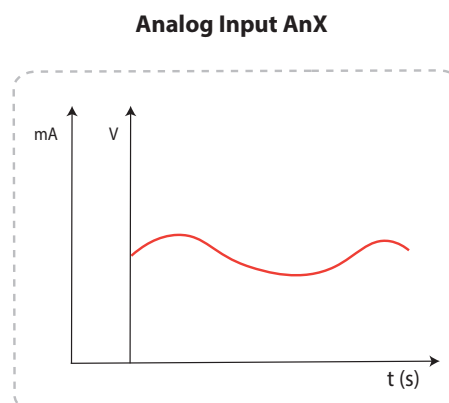


Flow rate and volume recording

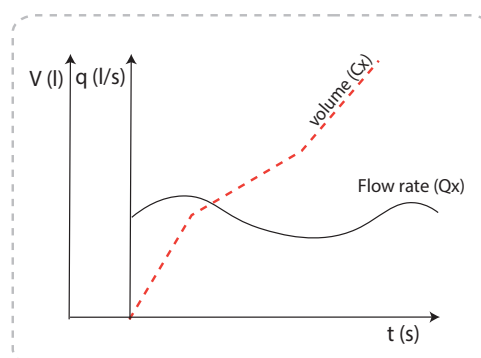


- Volume displayed in Cx
- Flow rate (calculated from volume over time) described in Qx

Flow rate and volume measure

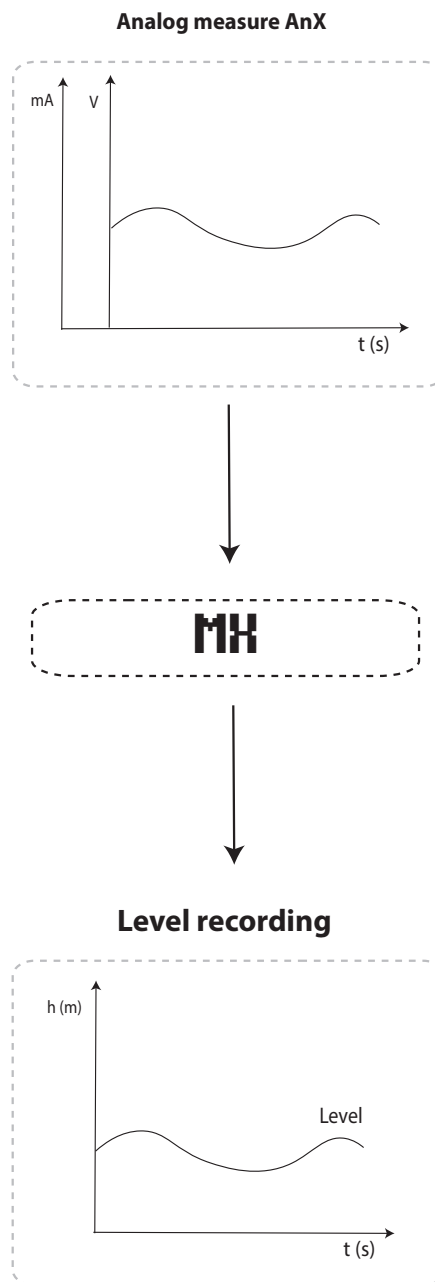


Flow rate and volume recording

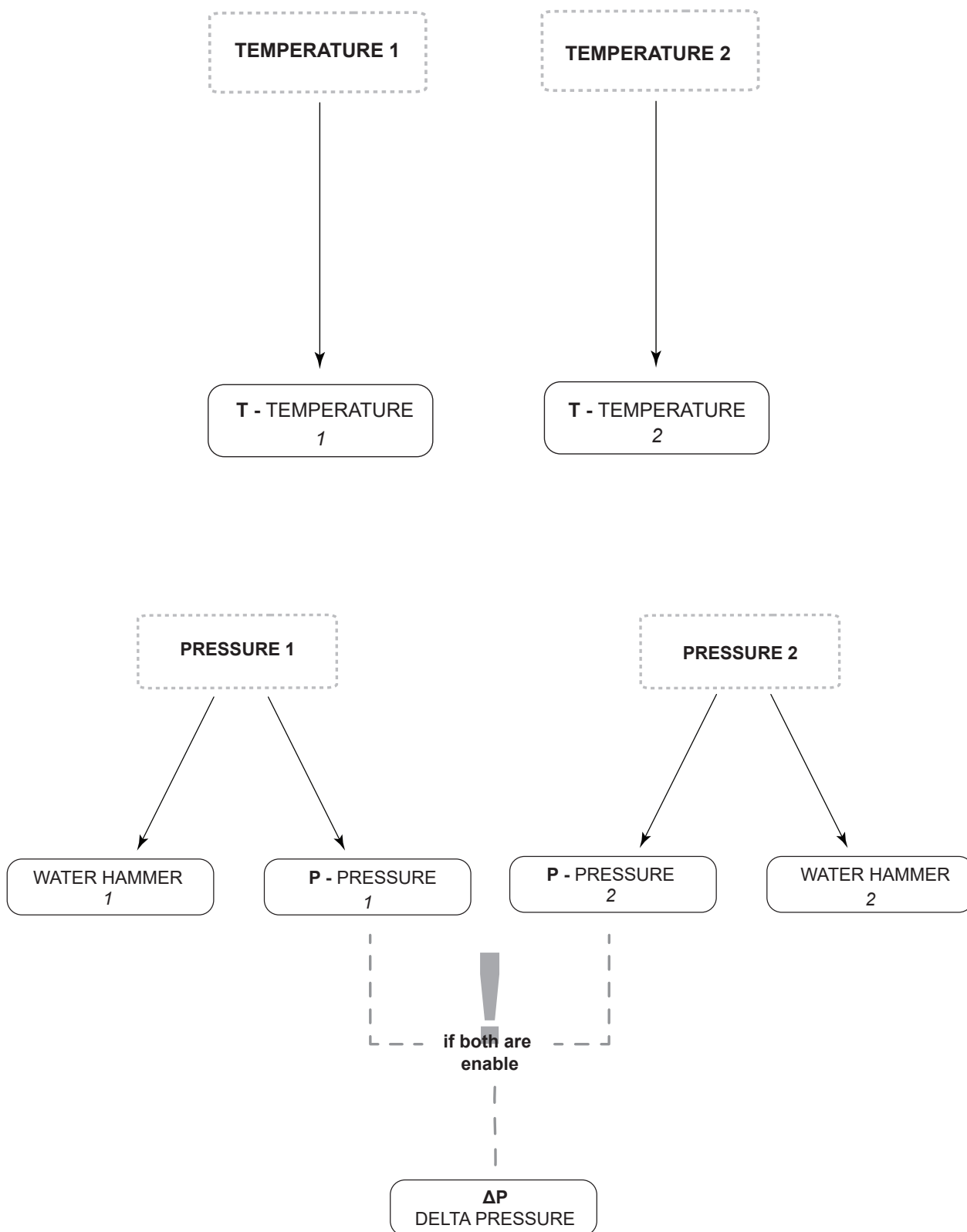


- Volume displayed in Cx
- Flow rate (calculated from volume over time) described in Qx

Analog measure (voltage or current e.g. level)



T1-T2 functions are for Temperature Input
P1-P2 are for Pressure Input.



HOW TO ORDER

CODE/ EXAMPLE		CODE/DESCRIPTION
Housing Material		
0	0	Nylon PA6 with fiber glass, protection rate IP 68 - 1,5 m
	9	To be Defined
Power Supply		
A	A	4 Lithium thionyl chloride batteries
	B	4 Alkaline or NiMh batteries SIZE D
	C	Board set for Lithium (Batteries NOT Supplied)
	D	Board set for Alkaline (Batteries NOT Supplied)
	E	4 Lithium thionyl chloride batteries + power supply from LOW VOLTAGE 9-36 VDC
	F	4 Alkaline batteries + power supply from LOW VOLTAGE 9-36 VDC
	G	Board set for Lithium (Batteries NOT Supplied) + power supply from LOW VOLTAGE 9-36 VDC
	H	Board set for Alkaline (Batteries NOT Supplied) + power supply from LOW VOLTAGE 9-36 VDC
Analog Input (Voltage)		
0	0	Without Analog Input (Voltage)
	1	n°1 Analog Input (Voltage) - NOT Available if the Option D Of Current Analog Input is Selected
Analog Input (Current)		
A	A	Without Analog Input (Current)
	B	n° 1 Analog Input (Current)
	C	n° 2 Analog Input (Current)
	D	n° 3 Analog Input (Current)
Analog Input (Pressure)		
0	0	Without Analog Input (Pressure)
	1	n° 1 Analog Input (Pressure)
	2	n° 2 Analog Input (Pressure)
Analog Input (Temperature)		
A	A	Without Analog Input (Temperature)
	B	n° 1 Analog Input (Temperature)
	C	n° 2 Analog Inputs (Temperature)
Digital Input (Counter)		
0	0	Without Digital Input
	1	n° 1 Digital Input as Counter (Pulses)
	2	n° 2 Digital Input as Counter (Pulses)
	3	n° 4 Digital Inputs as Counter (Pulses)
	4	N° 4 Digital Inputs as Alarm (STATUS)
Digital Input (Status)		
A	A	NO Digital Input as Alarm
	B	n° 1 Digital Input as Alarm (Status)
	C	n° 2 Digital Input as Alarm (Status)
Digital Outputs		
0	0	Without Digital Output
	1	With n° 1 Programmable Digital Outputs (AC-DC)
	2	With n° 2 Programmable Digital Outputs (AC-DC)

Power Supply		
A	A	No ext Power Supply for Output
	B	With Output Ext Power Supply
Communication Gateways & Protocols		
0	0	4G communication module with antenna on the housing
	1	4G communication module with 3 meters cable antenna
	2	4G communication module with antenna on the housing with DNP3 Protocol
	3	4G communication module with 3 meters cable antenna with DNP3 Protocol
	4	4G communication module with antenna on the housing + RS485 port and Modbus protocol
	5	4G communication module with 3 meters cable antenna + RS485 port and Modbus protocol
Data Logger		
A	A	MicroSD Memory 4 GB : Data Logger + RTC (Real Time Clock)
Special features		
0	0	None
	1	with ONE 10 poles PLUG already connected to 2 meters of 10 poles cable
	2	with TWO 10 poles PLUG already connected to 2 meters of 10 poles cable
	9	To Be Defined

Esempio
di codice
completo da
ordinare

MV155-0A0A0A0A0A0A0

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



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