



DATA SHEET

CS611_IS



CE

ISOIL 
I N D U S T R I A



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TECHNICAL DATA

OVERALL FEATURES

Size for pipe line Ø	☐ DN15 / Thread 1/2" Kv 1,6 ☐ DN20 / Thread 3/4" Kv 1,7 ☐ DN20 / Thread 3/4" Kv 3,6 ☐ DN25 / Thread 1" Kv 7,3 ☐ DN32 / Thread 1"1/4 Kv 7,3 ☐ DN32 / Thread 1"1/4 Kv 12,7 ☐ DN40 / Thread 1"1/2 Kv 38,1 ☐ DN50 / Thread 2" Kv 35,0
Minimum conductivity	☐ 20 microSiemens
Altitude	☐ 4000 meters
Humidity Range	☐ Max. 95% RH, non-condensing
CE Certification	☐ Yes

STANDARD FEATURES

Protection Rate	☐ IP54			
Power Supply/Consumption	 24V AC/DC (operating only with safety isolating transformer according EN 61558-2-6)			
Cable gland	☐ N° 4 white plastic Cable Glands PG7			
flow measurement scales		qi (m3/h)	qp (m3/h)	qs(m3/h)
	☐ DN15	0.030	1.5	3
	☐ DN20	0.050	2.5	3.5
	☐ DN25	0.070	3.5	7
	☐ DN32	0.120	6	10
	☐ DN40	0.200	10	20
	☐ DN50	0.300	15	24
Protocols	☐ MCP			
Data Storage	☐ F-ram not volatile			
Programming Plug In	☐ Connessione a PC tramite USB C			
Bi-Directional	☐ Bidirectional use not recommended			
Body material	☐ Brass + Peek			
Nominal pressure	☐ PN16			
Lining material/gasket	☐ PEEK/FPM			
Liquid temperature	☐ -10°C° ÷ 100°C			
Electrodes material	☐ HC276			

OPTIONAL FEATURES

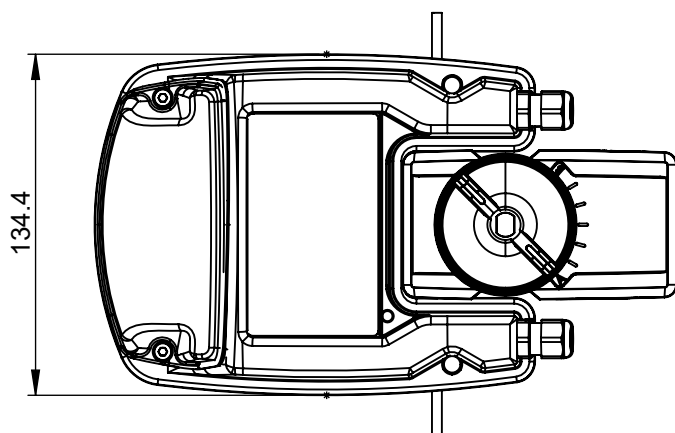
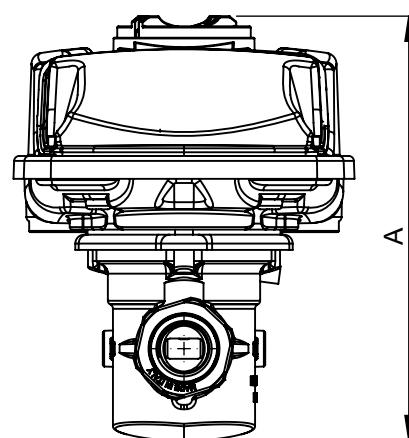
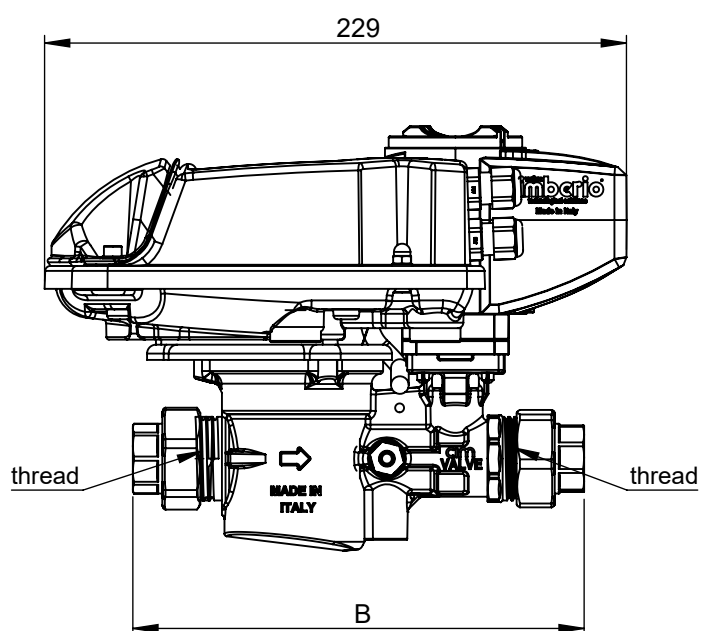
(CHECK FOR MORE DETAILS 'HOW TO ORDER' ON LAST PAGE)

Pulses/ Alarm Output	☐ N°1 ON/OFF, 1250 Hz, 100mA, 30 Vdc
Digital Input	☐ N°1 Programmable
Analog Input	☐ N°1 Programmable 0-10 V / 0-22mA Input
Data Logger	☐ Yes

ACCURACY

Accuracy (whole system)	☐ MID 004 Accuracy class 1 (see table)
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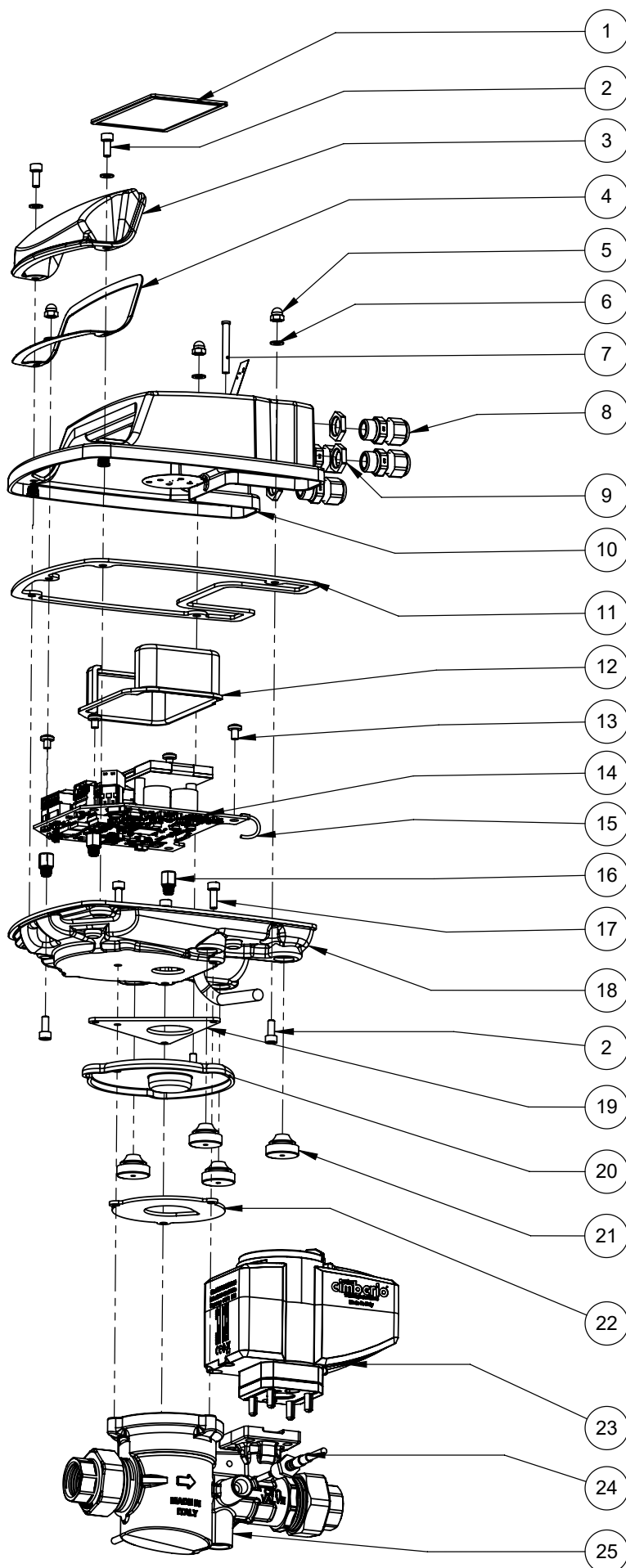
OVERALL DIMENSIONS



CONNECTIONS AND DIMENSIONS

DIMENSIONS mm (inches)	DN					
	15(1/2")	20(3/4")	25(1")	32(1 1/4")	40(1 1/2")	50(2")
A (mm)	165	165	175	175	190	200
B (mm)	177	182	212	216	271	275

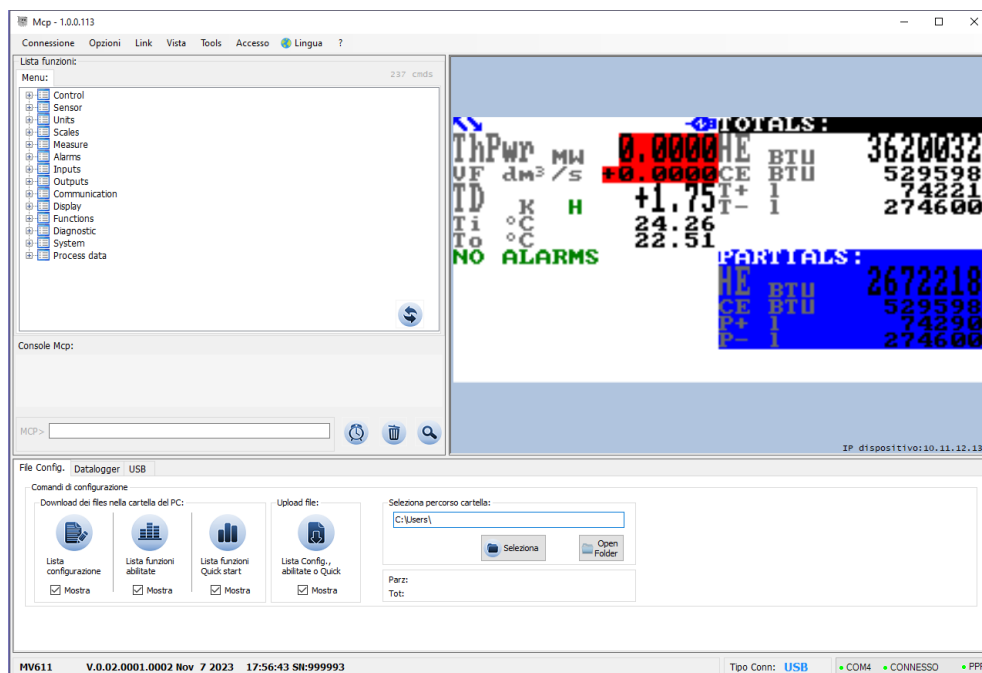
CS611 CONSTRUCTION



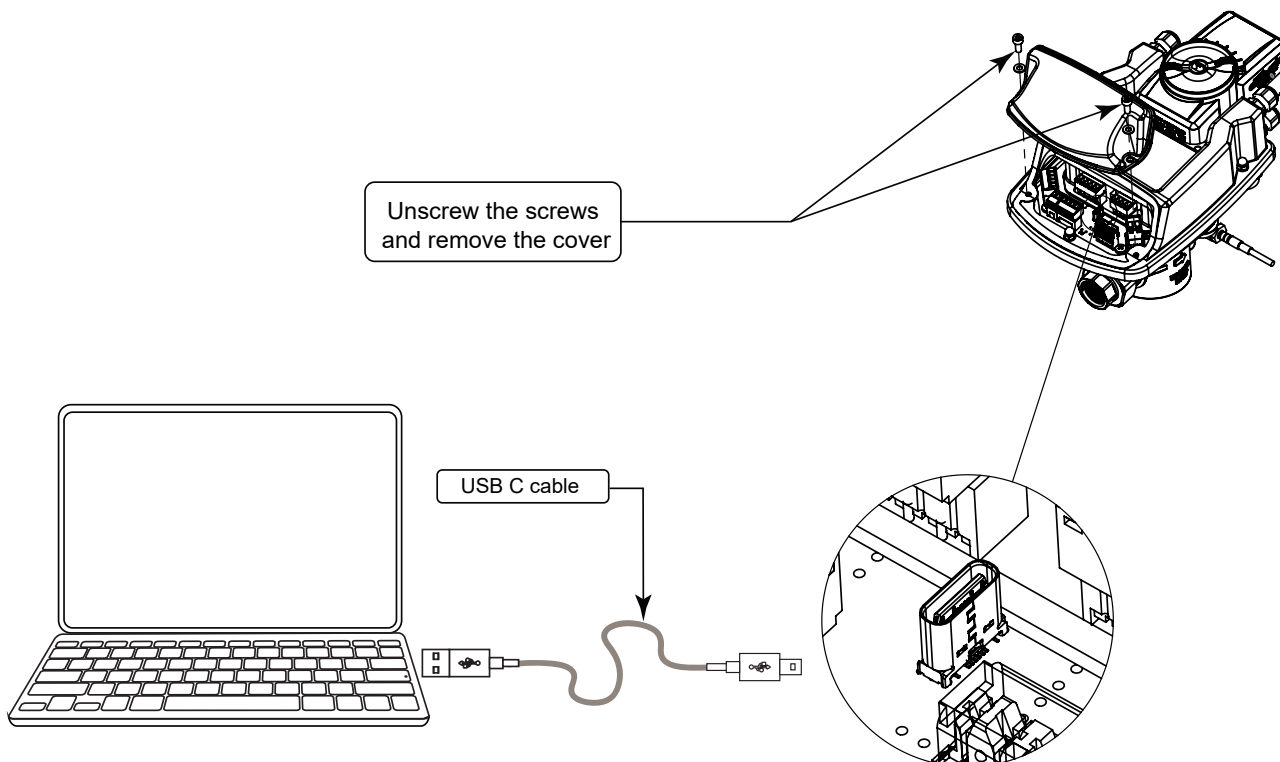
POS.	DESCRIPTION	QT.
1	SCREEN-PRINTED GLASS	1
2	SCREW M4X10 INOX TCE	8
3	TERMINAL COVER	1
4	TERMINAL COVER GASKET	1
5	BLIND NUT INOX M4	3
6	FLAT GROWER INOX Ø 4	5
7	GUIDALED	1
8	PG7 CABLE GLAND WITH O-RING	4
9	BRASS RING NUT	4
10	UPPER SHELL	1
11	UPPER SHELL GASKET	1
12	INTERNAL BOX	1
13	SCREWS M4 X 6 TC	4
14	MV611 BOARD	1
15	GROUND CABLE	1
16	SPACER MF06 H 4080.5 08	4
17	SCREW M4X12 INOX TCE	4
18	BOTTOM SHELL	1
19	ADAPTER GASKET	1
20	ADAPTER	1
21	CONICAL CABLE GLANDS	4
22	SEPARATION GASKET DN 15-20	1
	SEPARATION GASKET DN 25-32	
	SEPARATION GASKET DN 40-50	
23	VALVE MOTOR	1
24	TEMPERATURE PROBES	2
25	BRASS VALVE BODY	1

USER INTERFACE

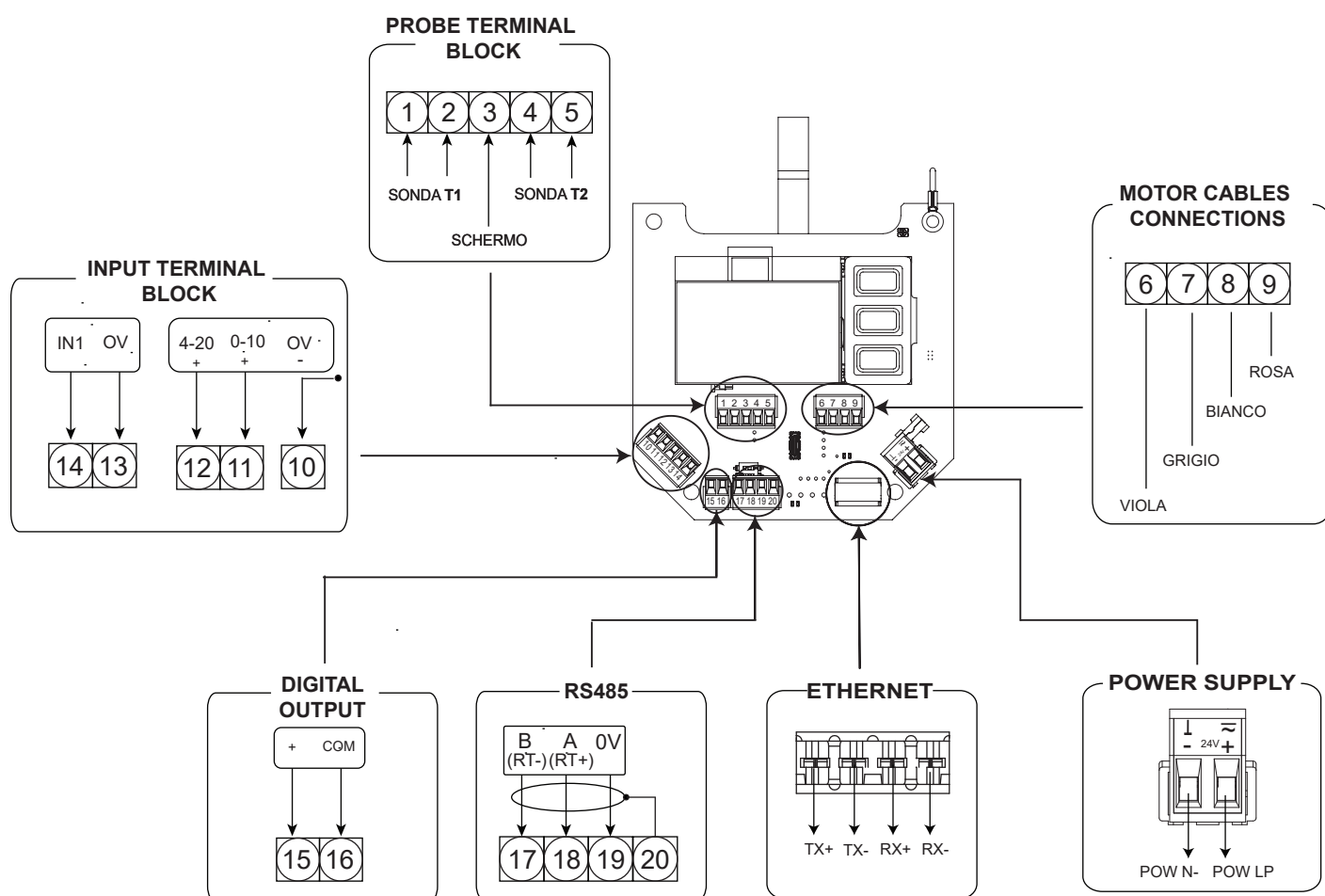
MCP is a Windows® software that allows to set all the converter functions and personalize the menu. To use MCP interface consult the relevant user manual.



Unscrew the screws
and remove the cover



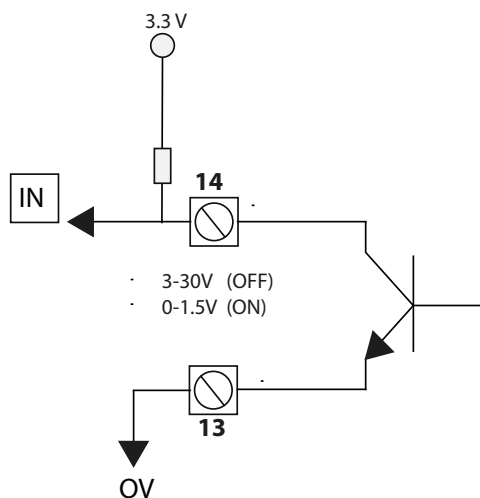
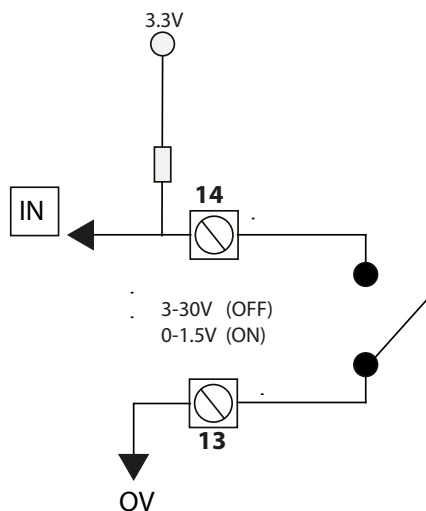
ELECTRICAL CONNECTIONS



24V AC/DC (operating only with safety isolating transformer according EN 61558-2-6)

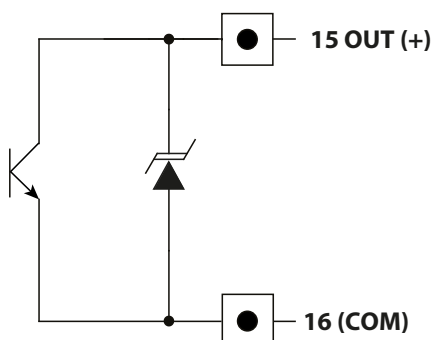
DIGITAL INPUT

Digital input is not insulated



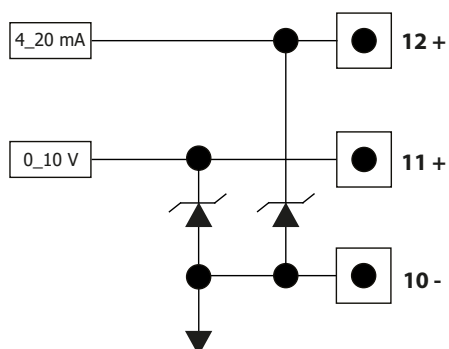
DIGITAL OUTPUT

Digital output is insulated



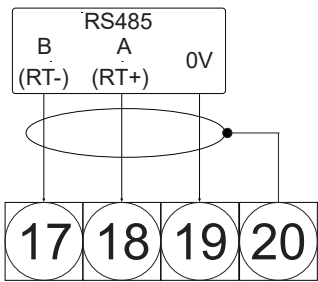
ANALOG INPUT

Analog input is not insulated



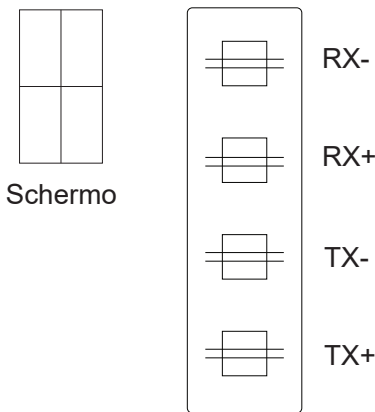
RS485

Output RS485 is insulated



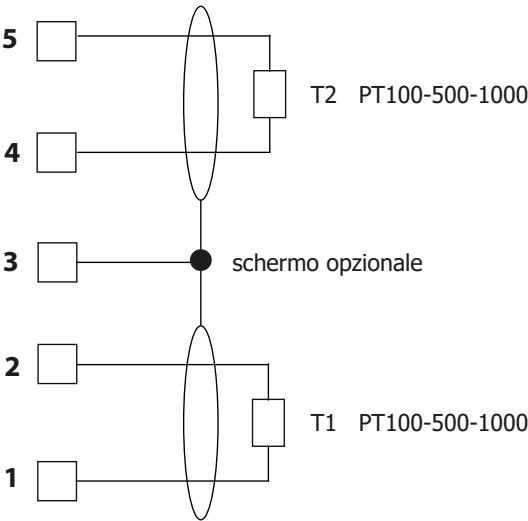
ETHERNET 10/100

The ethernet output is insulated



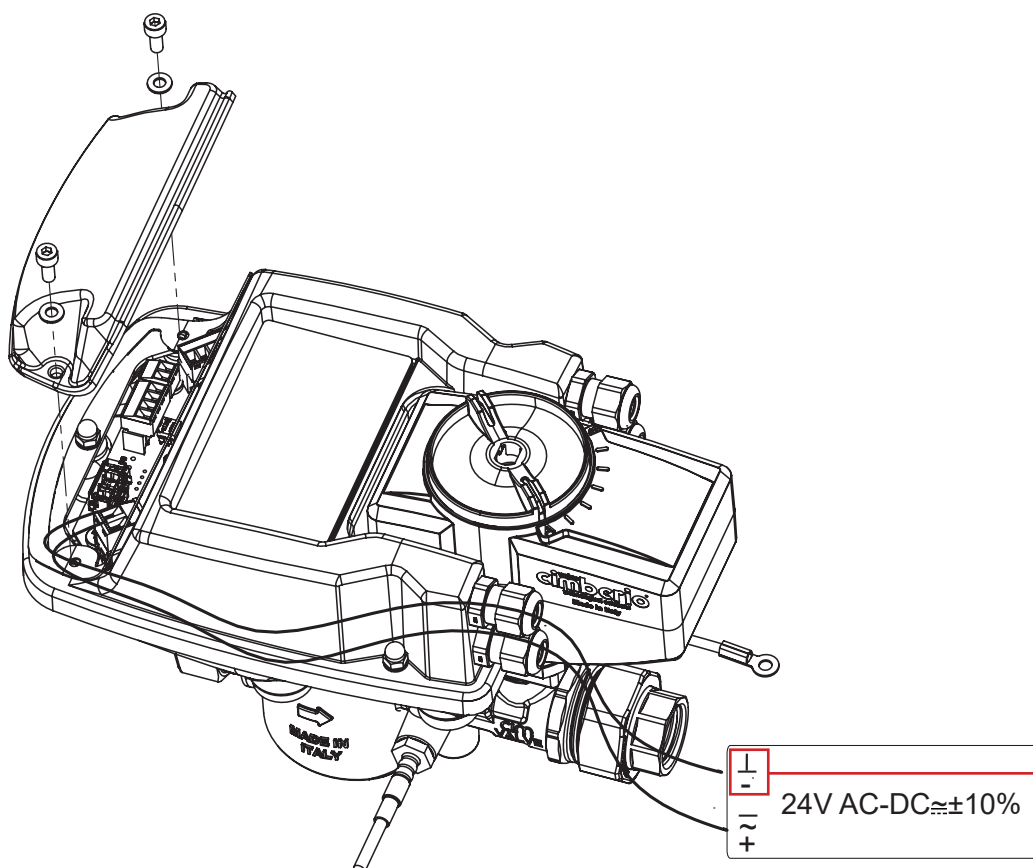
TIA568A	TIA568B	RS45
orange	green	6
white/orange	white/green	3
green	orange	2
white/green	white/orange	1

TEMPERATURES



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

POWER SUPPLY

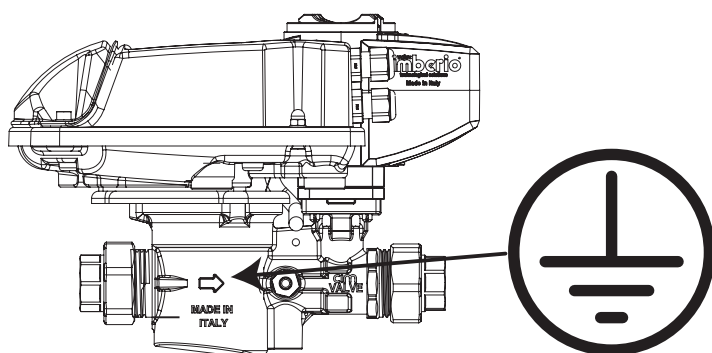


POW -N it is internally connected to the ground of the sensor body



24 VAC/VDC operating only with safety isolating transformer according EN 61558-2-6

GROUNDING



FUNCTIONS MENU

CONTROL

MAIN MENU		
1- Control		
2- Sensor		
3- Units		
4- Scales		
5- Measure		
6- Alarms		
7- Inputs		
8- Outputs		
9- Settings		
10- Help		
11- About		
12- Exit		
13- Factory		
14- Reset		
CONTROL		
1- Reg. enable	OFF	
2- Reg. ch.	MANUAL	
3- SP	ml/cOU FLOW,0.0000	
4- SP Man.	(%)	
5- HK	UF FLOW,+1010	
6- CH	UF FLOW,+1010	
7- Dead-Band	(%)	
8- Disabled SP	(%)	
9- Out Max Lim	(%)	
10- Out Min Lim	(%)	
11- Enab. source	SET	
12- Out.en.in-al	OFF	
13- Out.in-a SP	(%)	
14- Loop error	(%)	
15- Pos. error	(%)	
16- Reg.timeout	(s)	

- 1.1 Enable output regulation
- 1.2 Channel selection for output regulation
- 1.3 Setpoint value for channel output reg.
- 1.4 Setpoint for output in manual mode
- 1.5 Heating ch. coefficients for out. reg.
- 1.6 Cooling ch. coefficients for out. reg.
- 1.7 Setpoint deadband for channel output reg.
- 1.8 Disabled setpoint value
- 1.9 Output max value limit
- 1.10 Output min value limit
- 1.11 Enable source for output regulation
- 1.12 Enable in-alarm setpoint for out. control
- 1.13 In-alarm setpoint value for out.control
- 1.14 Max loop reg. error for output (0=OFF)
- 1.15 Max positioning error for out.c. (0=OFF)
- 1.16 Regulation and posit. timeouts for out

SENSOR

MAIN MENU		
1- Control		
2- Sensor		
3- Units		
4- Scales		
5- Measure		
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7- Inputs		
8- Outputs		
9- Settings		
10- Help		
11- About		
12- Exit		
13- Factory		
14- Reset		
SENSOR		
1- Diam.	(mm)	
2- KA	10.000	
3- KZ	0	
4- C.Curr.	(mA)	
5- Coil.Reg. IG	20	

- 2.1 Sensor's nominal/real diameter
- 2.2 Sensor's coefficient KA
- 2.3 Sensor's coefficient KZ
- 2.4 Sensor's excitation current
- 2.5 Current regulator integral gain

UNITS

MAIN MENU		
1- Control		
2- Sensor		
3- Units		
4- Scales		
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7- Inputs		
8- Outputs		
9- Settings		
10- Help		
11- About		
12- Exit		
13- Factory		
14- Reset		
UNITS		
1- FR.unit	METRIC	
2- Temper. unit	°C	
3- Energy un	METRIC	
4- Energy un	(J)	
5- D.P. Energy	0	
6- T+ unit	METRIC	
7- T+ unit	(ml)	
8- T+ D.P.	0	
9- T- unit	METRIC	
10- T- unit	(ml)	
11- T- D.P.	0	
12- AHi unit	MET.U.	
13- AHi unit	(ml)	
14- AHi D.P.	0	
15- IP1 unit	MET.U.	
16- OP1 unit	METRIC	

- 3.1 Flow rate unit of measure type
- 3.2 Temperature unit of measure
- 3.3 Energy totalizer unit of measure type
- 3.4 Energy totalizer unit of measure
- 3.5 Energy totalizer Decimal point position
- 3.6 Positive totalizer unit of measure type
- 3.7 Positive totalizer unit of measure
- 3.8 Positive totalizer decimal point position
- 3.9 Negative totalizer unit of measure type
- 3.10 Negative totalizer unit of measure
- 3.11 Negative totalizer decimal point position
- 3.12 AUX input totalizer unit of measure type
- 3.13 AUX input totalizer unit of measure
- 3.14 AUX input total. decimal point position
- 3.15 In Pulse 1 unit of measure type
- 3.16 Out Pulse 1 unit of measure type

SCALES

```

MAIN MENU
1-Control
2-Sensor
3-Units
4-Scales
5-Measure
6-Alarms
7-Inputs
8-Outputs
9-Factory
10-Reset
11-About
12-Help
13-Exit
14-Back

```

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SCALES
10-FR          ml/d,99999
12-TPwr        W,1.0000
13-Ip1         ml,1000.0
14-Op1         J,1.0000
Top1          (ms)
Start S.T     (°C)
Full S.T      (°C)
F.S.DTemp     (H)
PresTi        (kPa)
PresTo        (kPa)

```

4.1 Full scale flow rate value
 4.2 Full scale thermal power value
 4.3 Channel 1 IN pulse volume value
 4.4 Channel 1 OUT pulse energy value
 4.5 Channel 1 OUT pulse time value
 4.6 Start scale temperature (Min)
 4.7 Full scale temperature (Max)
 4.8 Full scale temperature Delta
 4.9 Pressure at Ti point
 4.10 Pressure at To point

MEASURE

```

MAIN MENU
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MEASURE
10-Sens.Type   PT100
12-VFF C.O.    (Z)
13-DT Min.     (H)
14-TiHC enable OFF
TiHC           (°C)
+VF m.mode     H/C
+VF mea. side  To
-VF m. mode    OFF
-VF mea. side  Ti
E. Ctrl type   AUT
K-Factor       OFF
Subst. type     ETGAPNNA5
Subst.Conc.     %
M.Prop.        FAST

```

5.1 Temperature sensor type
 5.2 Vector fluid flow cut-off threshold
 5.3 Temperature delta cut-off threshold
 5.4 Ti Heating-Cooling threshold enable
 5.5 Ti Heating-Cooling threshold value
 5.6 Positive vector flow measurement mode
 5.7 Positive vector flow measurement side
 5.8 Negative vector flow measurement mode
 5.9 Negative vector flow measurement side
 5.10 Energy counter control type enable
 5.11 Enable Table of Kfactor Coeff.
 5.12 Kfactor Substance Type
 5.13 Kfactor Substance Concentration
 5.14 Measure acquisition profile

ALARMS

```

MAIN MENU
1-Control
2-Sensor
3-Units
4-Scales
5-Measure
6-Alarms
7-Inputs
8-Outputs
9-Factory
10-Reset
11-About
12-Help
13-Exit
14-Back

```

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ALARMS
10-FM          OFF
12-Fm          OFF
13-Pwr M       OFF
14-Pwr m       OFF
DT max        OFF
DT min        OFF
Ti Max        OFF
Ti min        OFF
To Max        OFF
To min        OFF
Hysteresis    (Z)

```

6.1 VF Max. flow rate alarm threshold
 6.2 VF min. flow rate alarm threshold
 6.3 Max. thermal power alarm threshold
 6.4 min. thermal power alarm threshold
 6.5 Max. temperature delta alarm threshold
 6.6 Min. temperature delta alarm threshold
 6.7 Max. temperature alarm threshold
 6.8 min. temperature alarm threshold
 6.9 Max. temperature alarm threshold
 6.10 min. temperature alarm threshold
 6.11 Hysteresis on alarm thresholds

INPUTS

INPUT		
P+ reset	OFF	7.1 Positive partial tot. reset input enable
P- reset	OFF	7.2 Negative partial tot. reset input enable
AuX P. reset	OFF	7.3 Aux partial tot. reset input enable
HEv P. reset	OFF	7.4 Heating energy partial reset input en.
CEv P. reset	OFF	7.5 Cooling energy partial reset input en.
P.Count lock	OFF	7.6 Partial counters lock input enable
T+ reset	OFF	7.7 Positive total tot. reset input enable
T- reset	OFF	7.8 Negative total tot. reset input enable
AuX T. reset	OFF	7.9 Aux total tot. reset input enable
HEv T. reset	OFF	7.10 Heating energy total reset input en.
CEv T. reset	OFF	7.11 Cooling energy total reset input en.
T.Count lock	OFF	7.12 Total counters lock input enable
A.In 0	0_10 V	7.13 Analog In 0 voltage range sel.
A.In 2	0_10 V	7.14 Analog In 2 type & range selection

MAIN
1-
2-
3-
4-
5-Measure
6-Alarms
7-Inputs
8-Outputs
9-Communication
10-Display
12-Functions
13-Diagnostic
14-System

OUTPUTS

MAIN	OUTPUTS		
1-	D.Out1	OFF	8.1 Digital Out 1 function selection
2-	A.Out0	0,0	8.2 Analog Out 0 voltage range sel.
3-			
4-			
5-Measure			
6-Alarms			
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8-Outputs			
9-Communication			
10-Display			
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MAIN
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COMMUN.

COMMUNICATON		
Modbus	OFF	9.1 Modbus Communication Protocol
Dev. Address	0	9.2 Device Communication Address
Com.Speed	300	9.3 Communication Speed
Parity	NO 15B	9.4 Communication Parity Bits
Ans. Delay	(ms)	9.5 Communication Answer Delay
ETH DHCP en.	ON	9.6 Ethernet DHCP enable
ETH devIP add.	192.168.001.064	9.7 Ethernet device IP address
ETH netw. mask	255.255.255.000	9.8 Ethernet network mask
ETH gateway add	192.168.001.001	9.9 Ethernet gateway address
ETH DNS address	192.168.001.001	9.10 Ethernet DNS address
NTP time server		9.11 NTP time server name / address
Netw. password		9.12 Network access password (web)
Net S.En.	ON+OFF	9.13 Network security (SSL-TLS) enable
MOD_32	AAAA-BBBB	9.14 Modbus 32 bits registers order

MAIN
1-
2-
3-
4-
5-Measure
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DISPLAY

DISPLAY		
Language	EN	10.1 Language for all messages
Contrast	5	10.2 Display contrast adjustment
Disp.time	(s)	10.3 Display/keyboard inactivity time
Key sens.	(%)	10.4 Keyboard sensitivity
Disp. F.Num.	5	10.5 Display page function number
Disp. P.Lock	OFF	10.6 Display lock page number
Disp. A.Scroll	0	10.7 Display auto-scroll pages bits (0=disab.)
Disp.date	OFF	10.8 Time and date display enable
LED Op. Mode	SIG	10.9 LED Operating Mode color switch
LED VF Blink	ON	10.10 LED Vector Fluid blink enable
LED Comm.Blk	OFF	10.11 LED Communication blink enable
Quick start	OFF	10.12 Quick start menu enable
Web UD En	ON	10.13 Virtual display web interface enable

MAIN
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FUNCTIONS

FUNCTIONS		
P+ reset		12.1 Positive partial tot. reset function
P- reset		12.2 Negative partial tot. reset function
AuH P. reset		12.3 Aux partial tot. reset function
HEv P. reset		12.4 Heating energy partial reset function
CEv P. reset		12.5 Cooling energy Partial reset function
T+ reset		12.6 Positive total tot. reset function
T- reset		12.7 Negative total tot. reset function
AuH T. reset		12.8 Aux total tot. reset function
HEv T. reset		12.9 Heating energy total reset function
CEv T. reset		12.10 Cooling energy total reset function
Load Dev. Fact.		12.11 Load device factory default values
Save Dev. Fact.		12.12 Save device factory default values
Acknow.Fact.Warn		12.13 Acknowledge factory data warning message
Calibration	0	12.14 Internal circuit calibration

MAIN
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8-Communication
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12-System

DIAGNOSTIC

DIAGNOSTIC		
Reboot-Self_Test		13.1 Reboot and execute self test diag. funct.
Firmware info	56	13.2 Firmware version information
Quick Setup info		13.3 Quick Setup information
Disp. sys.values		13.4 Display diagnostic system values
F.Bus comm.diag.		13.5 FieldBus comm.diagnostic values
Disp.comm.vars		13.6 Display comm.diagnostic values
Display measures		13.7 Display internal measured values
S/N	999995	13.8 Board serial number (read only)
WT	0000	13.9 Total working time (read only)
PT	0000	13.10 Partial counters / L.T.S. life time
Sens.verify	0	13.11 Sens.verify diagnostic function
Simulation	OFF	13.12 Flow & Temp. simulation function

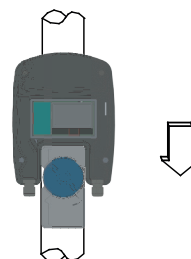
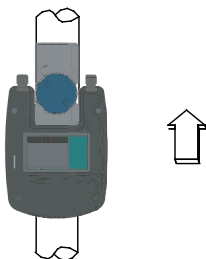
MAIN
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2-Display
3-Functions
4-Diagnostic
5-System
6-Inputs
7-Outputs
8-Communication
9-Display
10-Functions
11-Diagnostic
12-System

SYSTEM

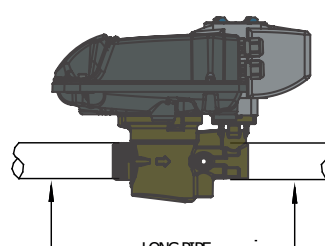
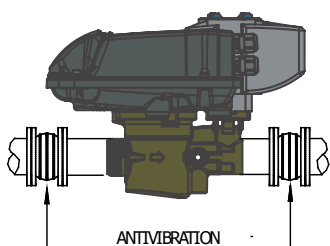
SYSTEM		
RTC enable	OFF	14.1 Date/Time (Real Time Clock) enable
Dayl.saving	OFF	14.2 Daylight saving time change
Time zone	(h)	14.3 Localized time zone
Date/time	00	14.4 System date and time
L1 code	10000000	14.5 Access level 1 code
L2 code	20000000	14.6 Access level 2 code
L3 code	30000000	14.7 Access level 3 code
L4 code	40000000	14.8 Access level 4 code
L5 code	57291624	14.9 Access level 5 code
L6 code	0	14.10 Access level 6 code
Restr.access	OFF	14.11 Restricted access level
TC	0	14.12 Total measure cycles
Device IP addr	10.011.012.013	14.13 Device IP network address
Client IP addr	10.011.012.012	14.14 Client IP network address
Network mask	255.255.255.254	14.15 Network mask
MCP ONLY	OFF	14.16 Calibration execution status memory
MCP ONLY	(ppm)	14.17 RTC adjustment coefficient
T1-T2 BALANCE		14.18 Temperature T1 - T2 calibration balance
T1 OFFS.	(°C)	14.19 Temperature T1 calibration offset
T2 OFFS.	(°C)	14.20 Temperature T2 calibration offset
Stand-by		14.21 System stand-by mode activation (poweroff)
QS Save & Lock		14.22 Quick setup save and lock editing
FW update		14.23 Firmware update
1-Communication		
2-Display		
3-Functions		
4-Diagnostic		
5-System		

INSTALLATION RECOMMENDATIONS

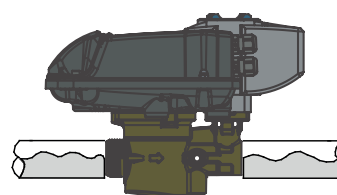
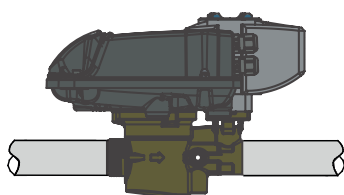
In vertical installations an ascending flow is preferable.
For vertical installations with descending flow direction contact the manufacturer



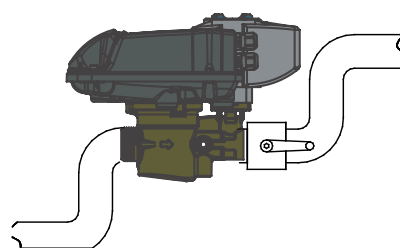
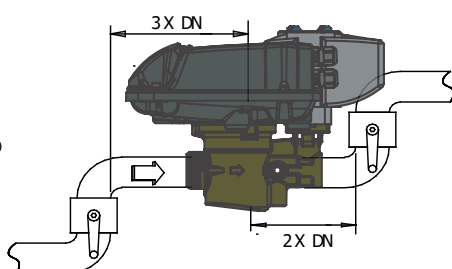
For installations in long pipe lines, please use anti vibration joints



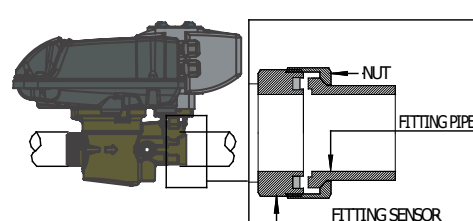
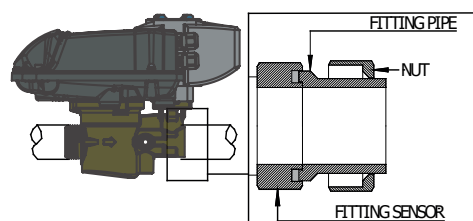
Avoid a partially empty pipe, during operation the pipe must be either completely full of liquid or completely empty



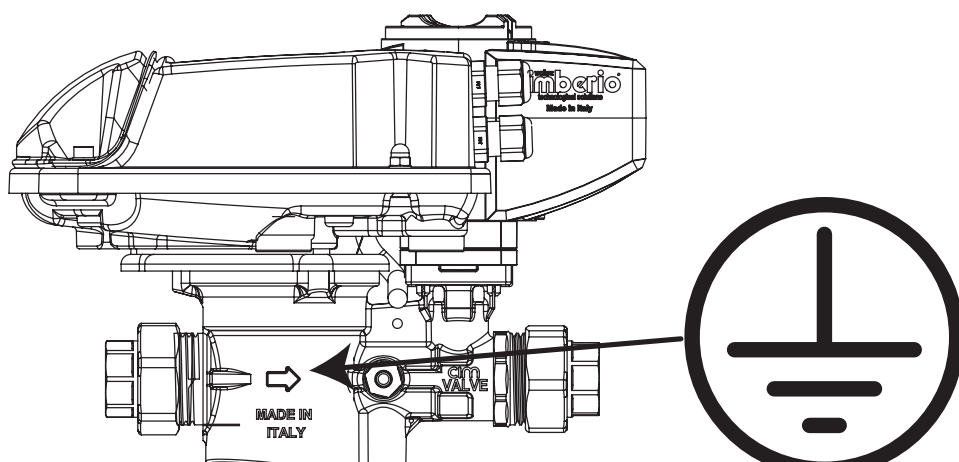
Install the sensor away from bends and hydraulic accessories



Avoid positioning fittings by tightening the clamps.

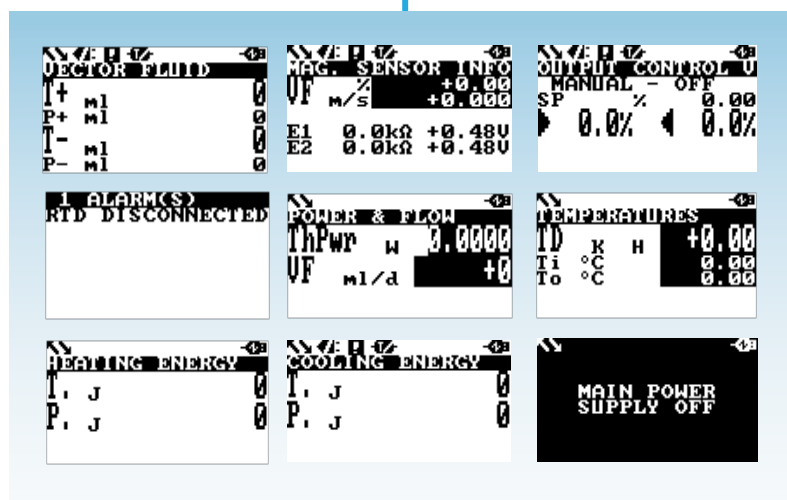
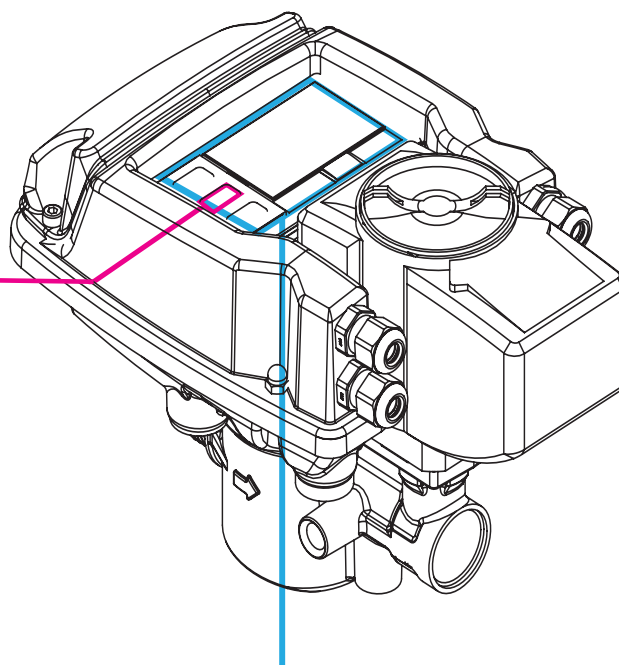
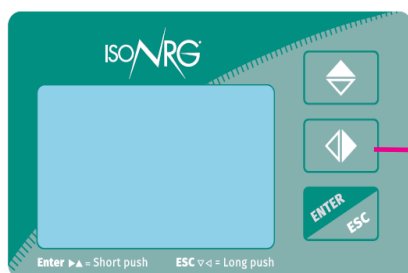


GROUND CONNECTION



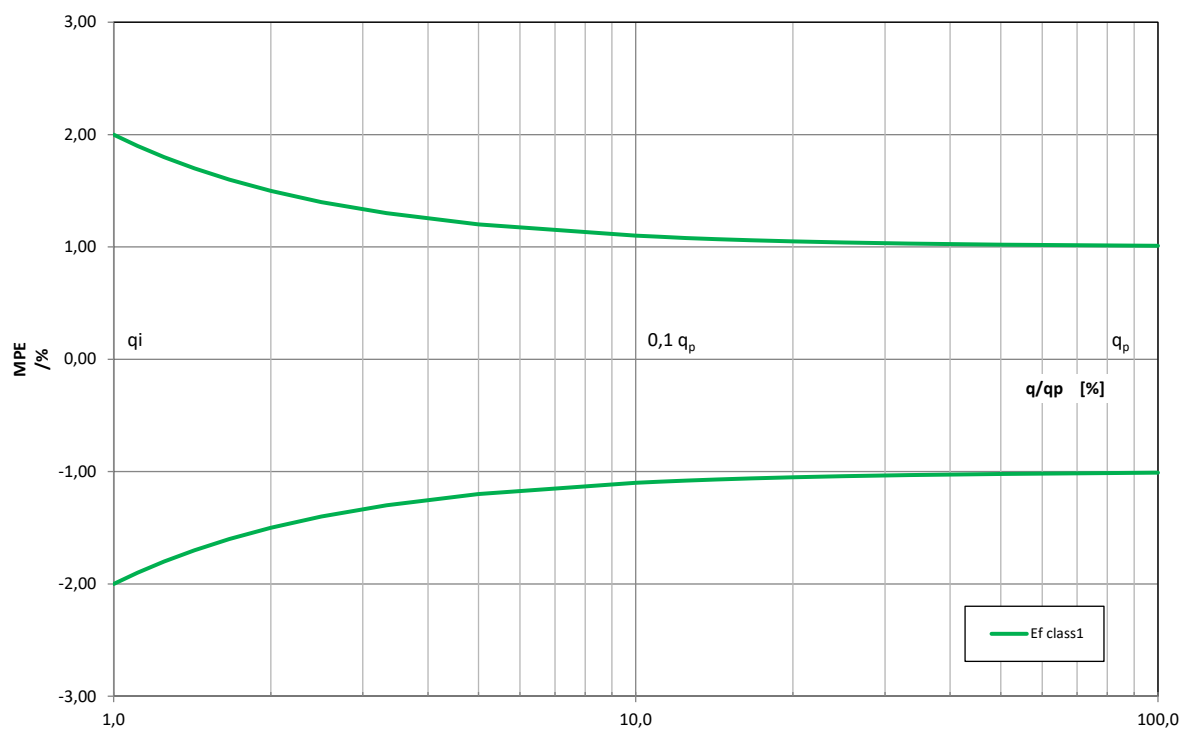
PAGES VISUALISATION

Different visualization possibilities by simply pressing of a key.



ACCURACY

MI 004 - MPE - ACCURACY CLASS 1
(UNI EN 1434-1:2016)



HOW TO ORDER

CODE EXAMPLE		CODE / DESCRIPTION
Model		
CS611	CS611	Isol ePIRV with integrated electromagnetic BTU meter
Approvals		
A	A	According to UNI EN 1434:2015 - CE/UKCA
	M	MID - MI004 - 2014/32/EU
Display		
0	0	Blind version (without local user interface)
	1	Graphic display 128 x 64 pixels with back light, nr. 3 touch keys.
Housing material		
A	A	PC/ABS housing sealable
Size		
0	0	DN15 / Thread 1/2" - Brass + Actuator
	1	DN20 / Thread 3/4" - Brass + Actuator
	2	DN25 / Thread 1"- Brass + Actuator
	3	DN32 / Thread 1"1/4 - Brass + Actuator
	4	DN40 / Thread 1"1/2 - Brass + Actuator
	5	DN50 / Thread 2"- Brass + Actuator
Flow coefficient (Kv)		
A	A	kv 1,6 (DN15)
	B	Kv 1,7 (DN20)
	C	Kv 3,6 (DN20)
	D	Kv 7,3 (DN25) - (DN32)
	E	Kv 12,7 (DN32)
	F	Kv 35 (DN50)
	G	Kv 38,1 (DN40)
Sensor body material / Electrode material / sealing material		
A	A	Sensor body in PEEK, Electrode in HC276, Sealing in FKM
I/O module - Analog		
A	A	Without Digital Input and Output
	B	nr. 1 Programmable Digital Input
I/O module - Digital		
A	A	Without Digital Input and Output
	B	nr. 1 Programmable Digital Input
	C	nr. 1 Programmable Digital Output
	D	nr. 1 Prog. Digital Input; nr. 1 Prog. Digital Output
User interfaces		
0	0	Without

Communication protocols		
A	A	Without Protocols
	B	Ethernet port ONLY (FTP, WEBs, NTPs, ...)
	C	Modbus RTU (over RS485)
	D	Modbus TCP (over Ethernet)
	E	Modbus RTU + TCP (over RS485 + Ethernet)
	F	Bacnet MS-TP (over RS485)
	G	Bacnet IP (over Ethernet)
	H	BACnet MS-TP or TCP - selectable by the customer - (over RS485 + Ethernet)
	I	BACnet MS-TP + Modbus RTU - selectable by the customer - (over RS485)
	L	Modbus TCP + BACnet IP (over Ethernet)
	M	Modbus RTU + TCP + BACnet MS-TP or IP (over RS485 + Ethernet)
	Z	Others
Temperature probes		
1	1	Without
	2	DS-2-2-3 cod. 8999 1111 -PT500-2 wires-d. 5,2mm - 5m cable - 30° ... +120°C (NOT MID)
	3	PS/DS type - PT500 - 2 wires - d. 5,2 mm - 3 m silicon cable - 30° ... +120°C (MID)
	4	DS/PS type - PT500 - 2 wires - d. 5,2 mm - 3 m silicon cable - 30° ... +120°C (MID)
Power supply / Battery Back-Up / Data Logger		
A	A	24Vac/Vdc NOT ISOLATED - Without RTC backup - Without Data Logger
	B	24Vac/Vdc NOT ISOLATED - With RTC Backup (Autonomy of 7 days) - NO Data Logger
	C	24Vac/Vdc NOT ISOLATED - With RTC Backup (Autonomy of 7 days) - With Data Logger
Electrical connection		
0	0	White plastic Cable Glands
Special Features		
A	A	Without Special Features

Complete code
example for
order

CS611-A0A0AA0A0A1A0A

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>



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