

Quick Start Manual



Symbol Explanation



This symbol denotes especially important guidelines concerning the installation and operation of the device. Not complying with the guidelines denoted by this symbol may cause an accident, damage or equipment destruction.

Basic Requirements | User Safety



- Do not use the unit in areas threatened with excessive shocks, vibrations, dust, humidity, corrosive gasses and oils.
- Do not use the unit in areas where there is risk of explosions.
- Do not use the unit in areas with significant temperature variations, exposure to condensation or ice.
- The manufacturer is not responsible for any damages caused by inappropriate installation, not maintaining the proper environmental conditions and using the unit contrary to its assignment.
- If in the case of a unit malfunction there is a risk of a serious threat to the safety of people or property additional, independent systems and solutions to prevent such a threat must be used.
- The unit uses dangerous voltage that can cause a lethal accident. The unit must be switched off and disconnected from the power supply prior to starting installation of troubleshooting (in the case of malfunction).
- Do not attempt to disassemble, repair or modify the unit yourself. The unit has no user serviceable parts.
- Defective units must be disconnected and submitted for repairs at an authorized service center.

Specifications

General	
Display	LED 6 Digit 13mm High Red Adjustable Brightness
Displayed Values	0 ~ 999999
RS485 Transmission	1200...115200 bit/s, 8N1 / 8N2
Housing Material	Polycarbonate
Protection Class	NEMA 4X IP67
Input Signal Supply	
Standard	Current: 4-20mA 0-20mA 0-5V* 0-10V*
Voltage	85 - 260V AC/DC 16 - 35V AC, 19 - 50V DC*
Output Signal Supply	
Standard	2 x Relays (5A) 1 x Relay (5A) + 4-20mA
Communication	RS485
Voltage	24VDC
Passive current output *	4-20mA (Operating Range Max. 2.8 - 24mA)
Performance	
Accuracy	0.1% @ 25°C One Digit
Temperatures	
Operating Temperature	-40 - 158°F -40 - 70°C

*Optional

Front Panel Description



Function of Push Buttons



Symbol used in the manual : [ESC/MENU]

Functions:

- Enter to main menu (press and hold for at least 3 sec.)
- Exit the current Screen and Enter to previous menu (or measure mode)
- Cancel the changes made in parameter being edited



Symbol used in the manual : [ENTER/PAUSE]

Functions:

- Start to edit the parameter
- Enter into the sub-menu
- Confirmation of changes made in parameter being edited
- While batcher mode : Pause / Start Batching



Symbol used in the manual : [Σ/RESET]

Functions:

- Switching of the display between total and instantaneous measurements or batcher counter (while batcher mode only)
- Zeroing the currently displayed counter (Press & Hold for at least 2 Sec), the zeroing must be confirmed by [ENTER] button



Symbol used in the manual : [^] [v]

Functions:

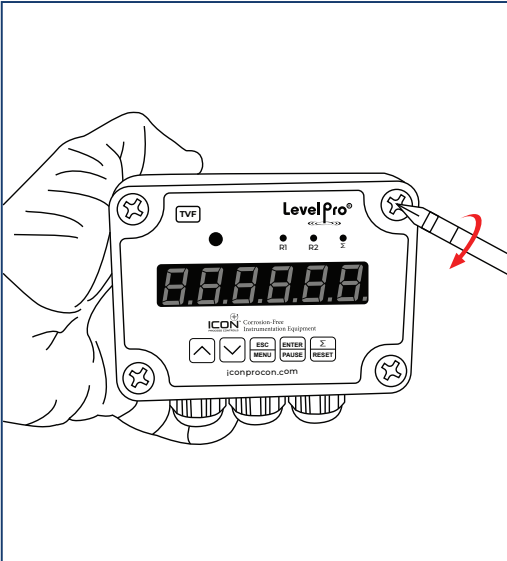
- Change of the present menu
- Modification of the parameter value
- Switching of the display between relay thresholds and number of batches counter.

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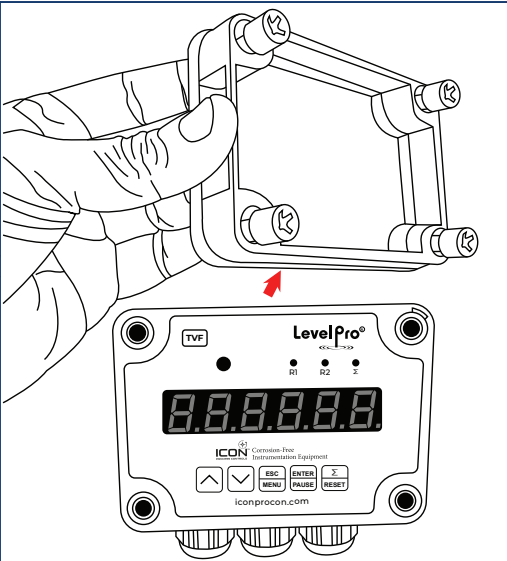
Flow Display | Controller | Batcher

Installation – Wall Mount

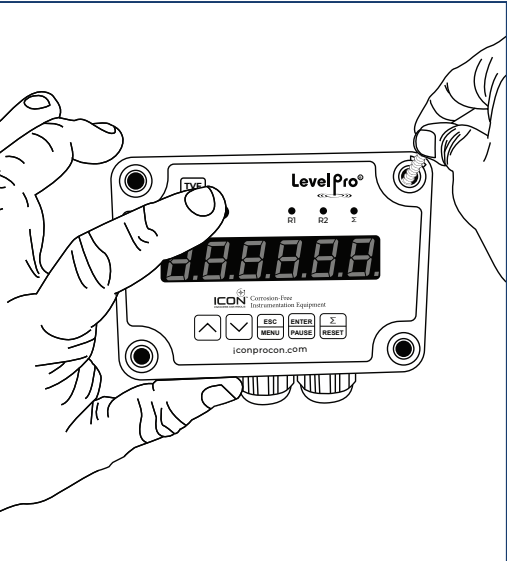
Note : Ensure that holes are made on the wall according to the provided dimensions.



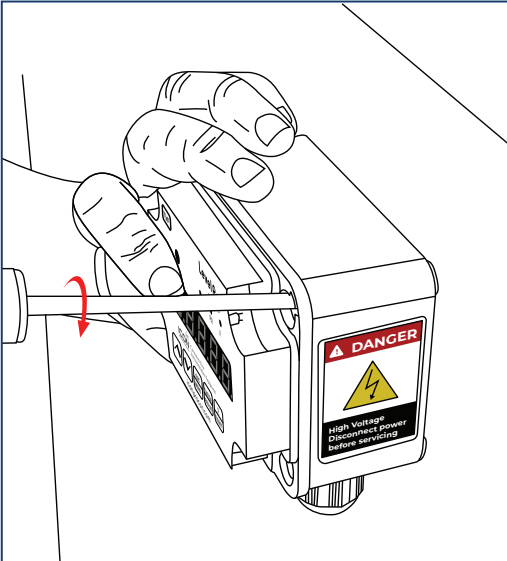
Loosen Box Screws



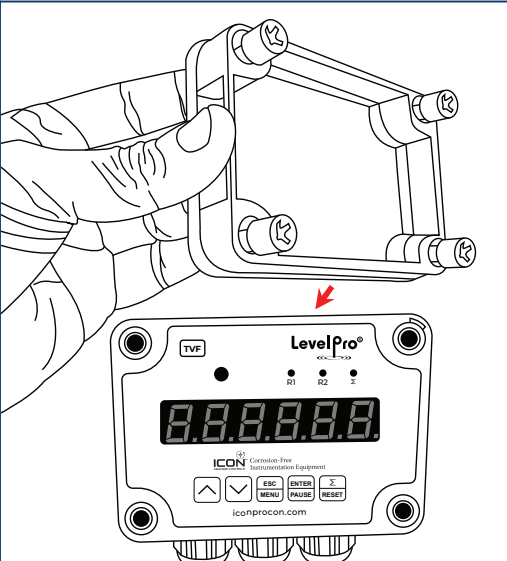
Remove Display Cover



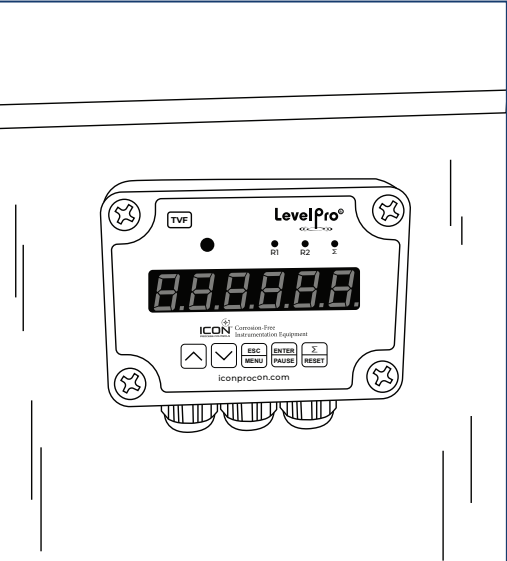
Insert the Wall Screws



Attach the box to the wall and secure it by tightening the screws.



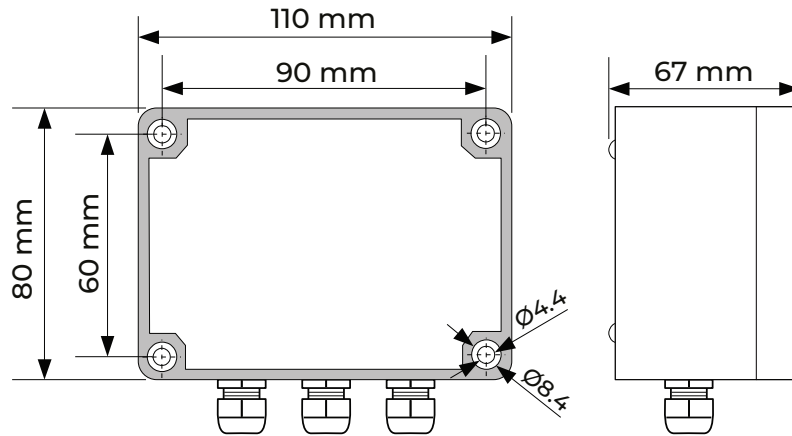
Replace the display cover and securely tighten the box screws.



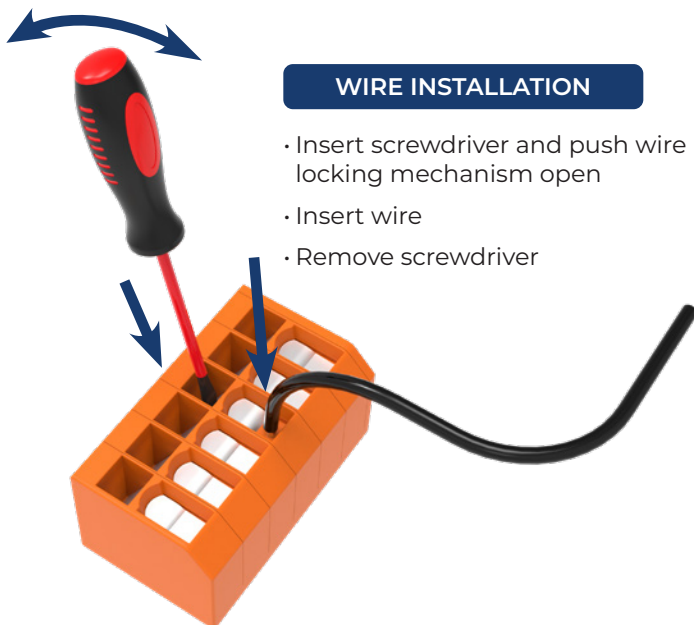
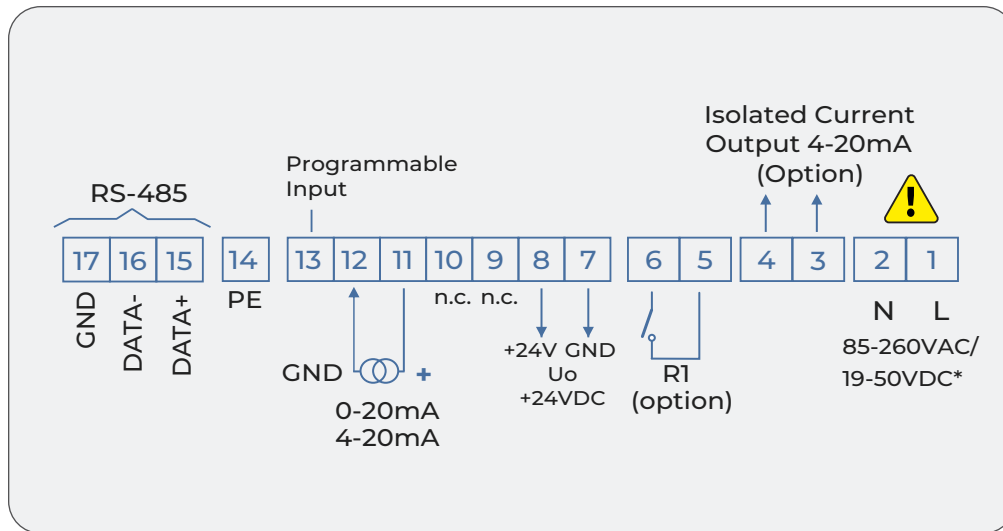
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Dimensions



Wiring Diagram



WIRE INSTALLATION

- Insert screwdriver and push wire locking mechanism open
- Insert wire
- Remove screwdriver

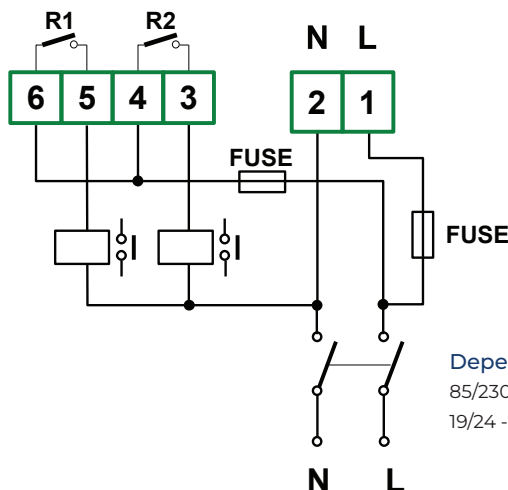


Due to possible significant interference in industrial installations, appropriate measures assuring correct operation of the unit must be applied.

The unit is not equipped with an internal fuse or power supply circuit breaker.

For this reason, an external time-delay cut-out fuse with a small nominal current value must be used (recommended bipolar, max. 2A) and a power supply circuit breaker located near the unit.

Power Supply & Relay Connection



Contacts of relay outputs are not equipped with spark suppressors. When using the relay outputs for switching of inductive loads (coils, contactors, power relays, electromagnets, motors etc.) it is required to use additional suppression circuit (typically capacitor 47nF/ min. 250VAC in series with 100R/5W resistor), connected in parallel to relay terminals or (better) directly on the load.

Suppression Circuit Connection

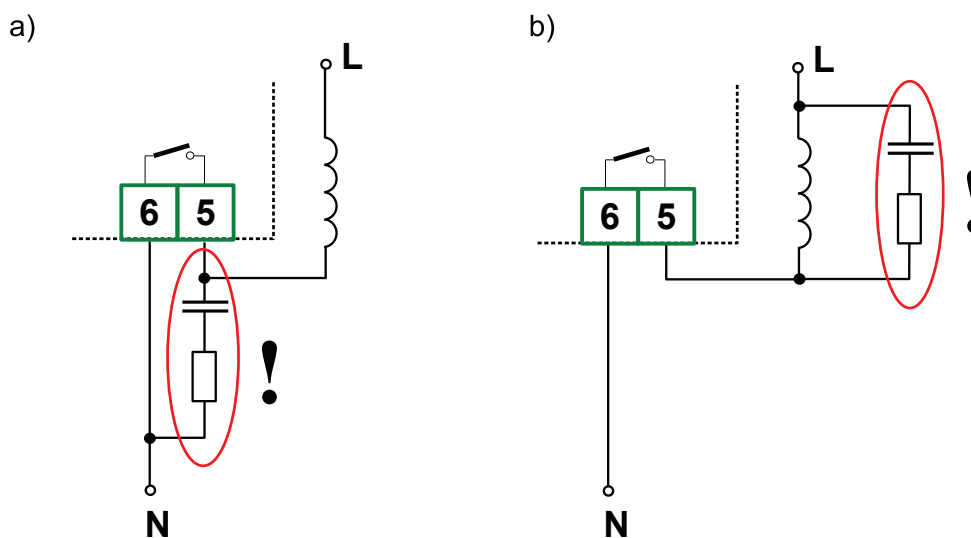


Figure: Examples of Suppression Circuit Connection
a) To Stepper Relay Terminals b) To the Inductive Load (Motor)

OC-Type Output Connection

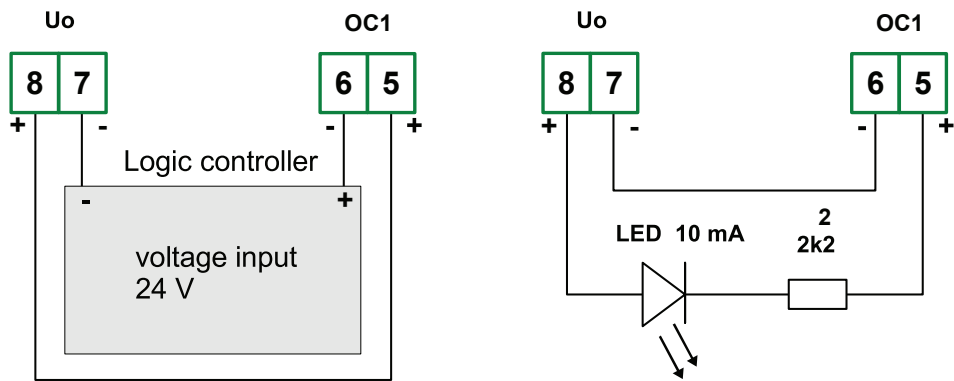


Figure: Examples of OC-type output connection

Current Output Connection Using Internal Power Supply

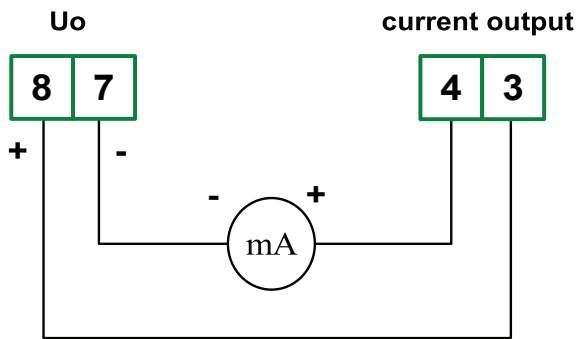


Figure: Example of current output connection using internal power supply

Current Output Connection Using External Power Supply

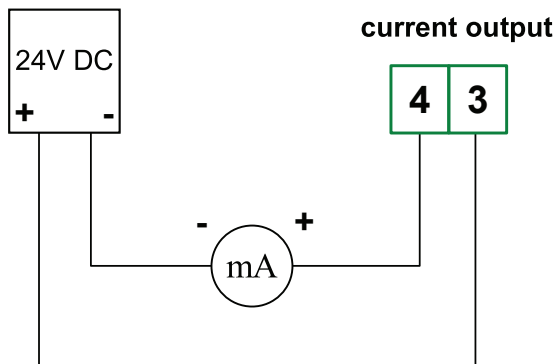
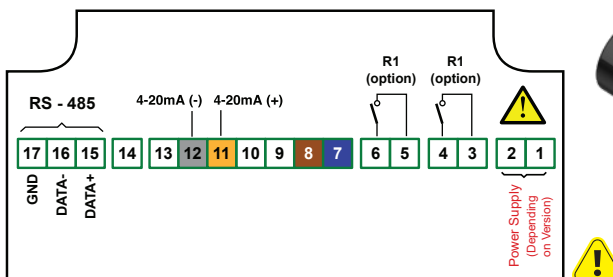


Figure: Example of current output connection using external power supply

Flow Meter Connections (Relay Type)

TKM Series : 4-20mA Output

TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
11	Yellow	mA+
12	Grey	mA-

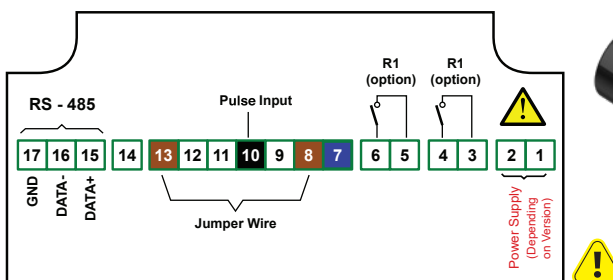


TKS Series : Pulse Output

GPM/Pulse = K factor

TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	NPN Pulse

Jump 13 & 8

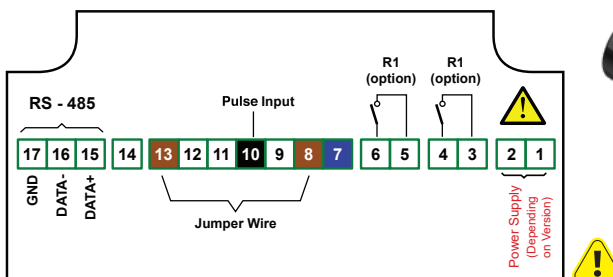


TKW Series : Pulse Output

GPM/Pulse = K factor

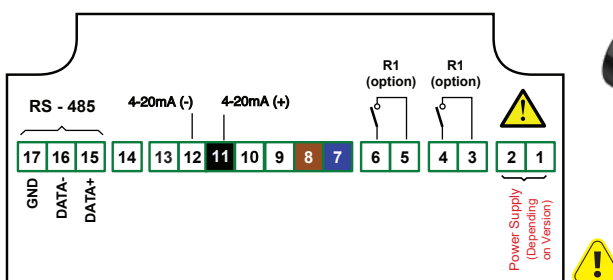
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	Pulse

Jump 13 & 8



TKW Series : 4-20mA Output

TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
11	Black	mA+
12	White	mA-



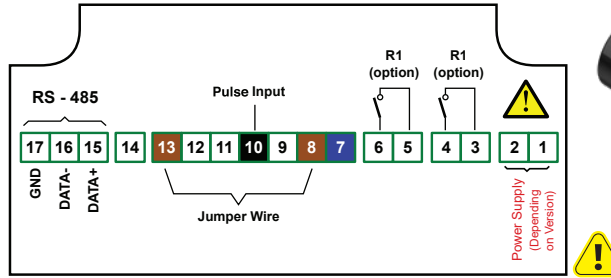
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TKM | TKP Series : Pulse Output

GPM/Pulse = K factor

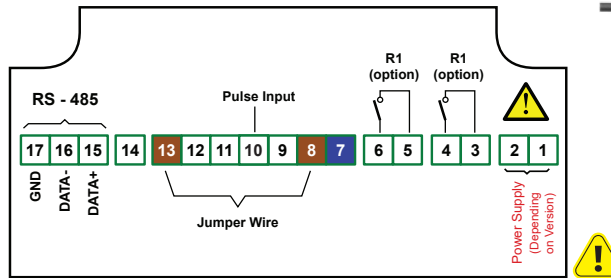
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	Pulse
Jump 13 & 8		



TIW Series : Pulse Output

GPM/Pulse = K factor

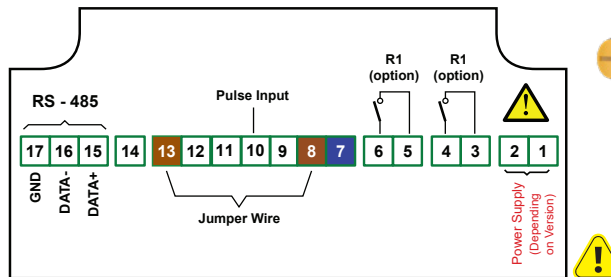
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	White	Pulse
Jump 13 & 8		



TIM | TIP Series : Pulse Output

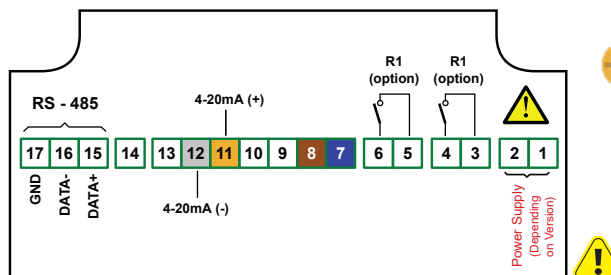
GPM/Pulse = K factor

TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	White	Pulse
Jump 13 & 8		



TIM Series : 4-20mA Output

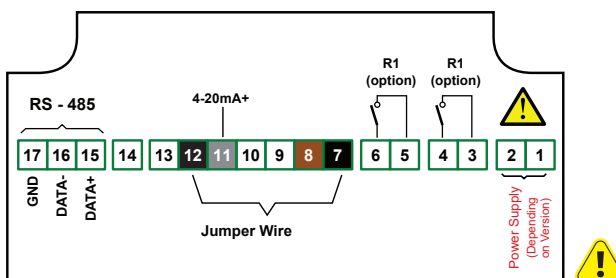
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
11	Yellow	mA+
12	Grey	mA-



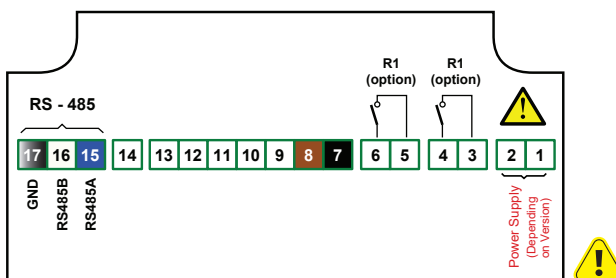
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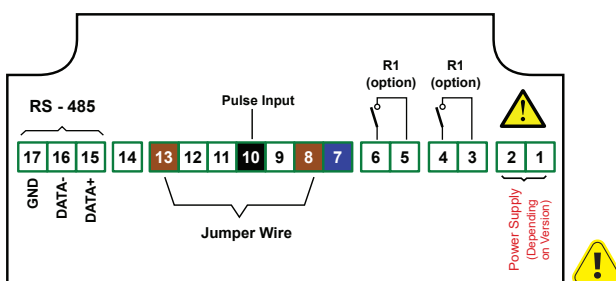
UF500 – 4-20mA Output		
TVF Terminal	Wire Color	Description
7	Black	-VDC
8	Brown	+VDC
11	Gray	+mA
Jump 12 & 7		



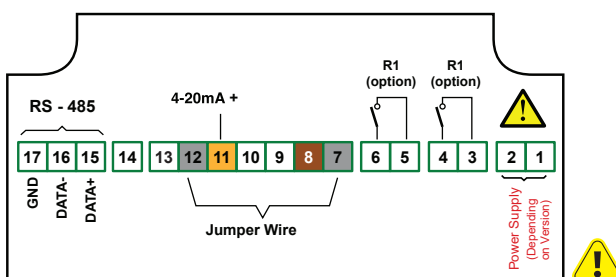
UF500 – RS485 Output		
TVF Terminal	Wire Color	Description
7	Black	-VDC
8	Brown	+VDC
15	Blue	RS485A
16	White	RS485B
17	Shield (Thick Black)	GND



UF 1000 4000 5000 – Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Pin	Description
8	1	+VDC
10	2	Pulse
7	3	-VDC
Jump 13 & 8		



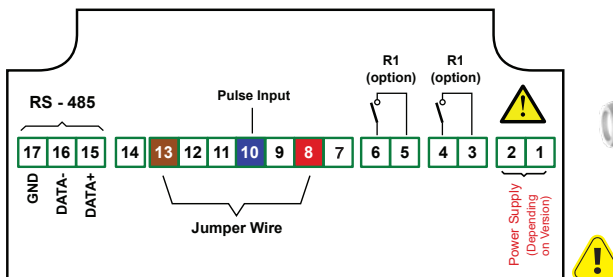
UF 1000 4000 5000 – 4-20mA Output		
TVF Terminal	Pin	Description
8	1	+VDC
11	2	+mA
7	3	-VDC
Jump 12 & 7		



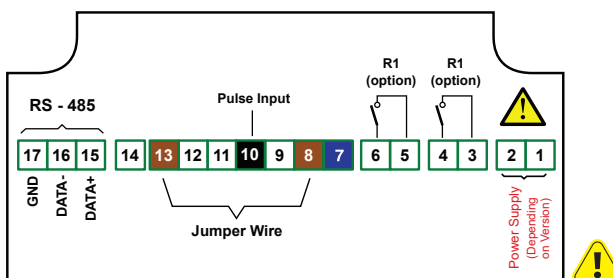
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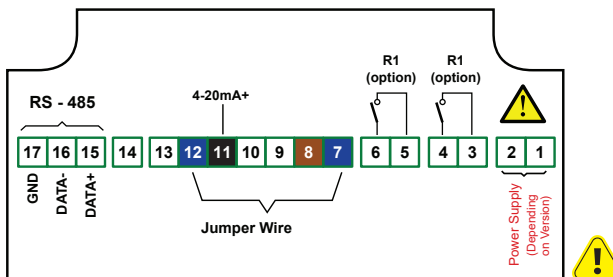
ProPulse (Flying Lead) – Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Wire Color	Description
7	Shield	-VDC
8	Red	+VDC
10	Blue	Pulse
Jump 13 & 8		



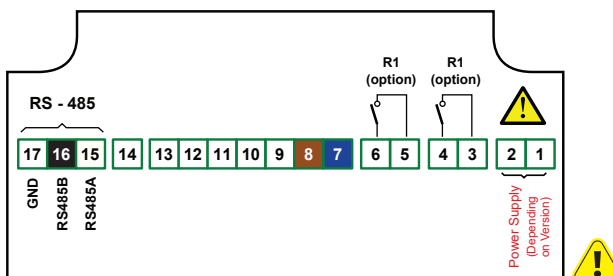
ProPulse®2 – Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	Pulse
Jump 13 & 8		



ProPulse®2 – 4-20mA Output		
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
11	Black	+mA
Jump 12 & 7		



ProPulse®2 – RS485 Output		
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
15	White	RS485A
16	Black	RS485B



Programming K Factor (For Pulse Input Models)

STEPS	DISPLAY	OPERATION
1 Main Display ▶  ESC MENU  3 SEC		MAIN DISPLAY
2 Relay 1 ▶   X 2		RELAY 1 Settings
3 Input ▶  ENTER PAUSE		INPUT Menu
4 K Factor ▶  ENTER PAUSE		Press  or  → Select PULSE (K Factor)
5 K Factor Value ▶  ENTER PAUSE  2 SEC		Enter K FACTOR Value Press  or  to change digit Press  to advance to next digit Note: Enter the K Factor value according to the Flow Unit. Eg: To display flow in GPM, Enter K Factor corresponding to GPM.
6 Save Value ▶  ENTER PAUSE		Save Selection
7 K Factor ▶  ESC MENU		PULSE
8 Input ▶  ESC MENU		Input Menu
9 Main Display ▶		Main Display

Programming 4-20mA Input (For 4-20mA Input Models)

STEPS	DISPLAY	OPERATION
1 Main Display  ESC MENU 3 SEC		MAIN DISPLAY
2 Relay 1   X 2		RELAY 1 Settings
3 Flow Menu  ENTER PAUSE		FLOW Menu
4 Input Type   X 6		INPUT TYPE Factory Default: 4-20mA
5 Low Calibration (4mA)  ENTER PAUSE		LOW CALIBRATION Setting Lo CAL = 4mA Value
6 4mA Value  ENTER PAUSE 2 SEC		Enter 4mA Value Factory Default: 000.0 Press  or  to change digit Press  to advance to next digit
7 Save Selection  ENTER PAUSE		Save Selection
8 Low Calibration (4mA)  		Low Calibration Setting
9 High Calibration (20mA)  ENTER PAUSE		HIGH CALIBRATION Setting Hi CAL = 20mA Value

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STEPS	DISPLAY	OPERATION
10 20mA Value  ENTER PAUSE 2 SEC		Enter 20mA Value Factory Default: 100.0 Press  or  to change digit Press  to advance to next digit
11 Save Selection  ENTER PAUSE		Save Selection
12 High Calibration (20mA)  ESC MENU		High Calibration Setting
13 Flow Menu  ESC MENU		Flow Menu
14 Main Display		Main Display

Programming Relays

STEPS	DISPLAY	OPERATION
1 Main Display		MAIN DISPLAY
ESC MENU 3 SEC		
2 Relay 1		RELAY 1 Settings
ENTER PAUSE		
3 Source		SOURCE Menu
ENTER PAUSE		
4 FLo bAt tot		Press or → Select FLo (Flow)
ENTER PAUSE		
5 Save		Save Selection
ENTER PAUSE		
6 Source		Source
7 Set Point 1		SET POINT 1
ENTER PAUSE		
8 Set Point 1 Value		Enter SET POINT 1 Value
ENTER PAUSE 2 SEC		Press or to change digit Press to advance to next digit
9 Save		Save Value
ENTER PAUSE		
10 Set Point 1		SET POINT 1

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STEPS	DISPLAY	OPERATION
11 Set Point 2 		SET POINT 2* * Option available only when the MODE is set to In/Out
12 Set Point 2 Value  2 SEC		Enter SET POINT 2 Value Press  or  to change digit Press  to advance to next digit
13 Save 		Save Value
14 Set Point 2 		Set Point 2
15 Hysterisis 		HYSTERISIS Menu
16 Hysterisis Value  2 SEC		Enter HYSTERISIS Value Press  or  to change digit Press  to advance to next digit
17 Save 		Save Value
18 Hysterisis 		Hysterisis Menu
19 Mode 		MODE Menu
20 On Off In Out 		Press  or  → Select On OFF In Out

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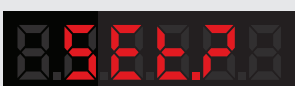
Flow Display | Controller | Batcher

STEPS	DISPLAY	OPERATION
21 Save 		Save Selection
22 Mode 		Mode Menu
23 Relay 1 		Relay 1 Menu
24 Main Display		Main Display

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Programming Batching

STEPS	DISPLAY	OPERATION
1 Main Display		MAIN DISPLAY
 ESC MENU 3 SEC		
2 Relay 1		RELAY 1 Settings
 ENTER PAUSE		
3 Source		SOURCE Menu
 ENTER PAUSE		
4 FLo bAt tot		Press  or  → Select bAt (Batch)
 ENTER PAUSE		
5 Save		Save Selection
 ENTER PAUSE		
6 Source		Source Menu
 		
7 Set Point		SET POINT
 ENTER PAUSE		
8 Set Point Value		Enter SET POINT Value
 ENTER PAUSE 2 SEC		Press  or  to change digit Press  to advance to next digit
9 Save		Save Value
 ENTER PAUSE		
10 Set Point		Set Point
 ESC MENU		
11 Relay 1		Relay 1 Menu
 ESC MENU		
12 Main Display		Main Display
 		
13 Batching Mode		BATCHING MODE    Note: Switching between Flow rate, Totalizer and Batching can be done by pressing Σ /RESET button. Kind of displayed value is signalled by " Σ " LED. Σ LED ON : Totalizer Σ LED OFF: Flow Rate Σ LED Pulsing: Batching
 ENTER PAUSE to start batching		

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Programming Output (For 4-20mA Output Models)

STEPS	DISPLAY	OPERATION
1 Main Display    3 SEC		MAIN DISPLAY
2 Relay 1   x 9		Relay 1 Settings
3 Output  		OUTPUT Menu
4 Output Mode  		OUTPUT MODE
5 4-20mA  		Press  or  → Select 4-20
6 Save  		Save Selection
7 Output Mode  		Select OUTPUT MODE
8 Source  		SOURCE Menu
9 FLo bAt tot  		Press  or  → Select FLo (Flow)
10 Save  		Save Selection

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Flow Display | Controller | Batcher

STEPS	DISPLAY	OPERATION
11 Source ▶ 		Source Menu
12 4mA ▶ 		Setting 4mA (LOW VALUE)
13 4mA Value ▶ 2 SEC		Enter 4mA Value Press or to change digit Press to advance to next digit
14 Save ▶ 		Save Value
15 4mA ▶ 		4mA (Low Value)
16 20mA ▶ 		Setting 20mA (HIGH VALUE)
17 20mA Value ▶ 2 SEC		Enter 20mA Value Press or to change digit Press to advance to next digit
18 Save ▶ 		Save Value
19 20mA ▶ 		20mA (High value)
20 Output ▶ 		Output Menu
21 Main Display ▶		Main Display

Resetting Batch

STEPS	DISPLAY	OPERATION
1 Main Display		MAIN DISPLAY
 ESC MENU  3 SEC		
2 Relay 1		Relay 1 Settings
 X 4		
3 Batch Settings		BATCH Menu
		
4 Batch Resolution		BATCH RESOLUTION
 X 5		
5 Mode Clear		MODE CLEAR
		
6 oFF on		Press  or  → Select on
		
7 Save		Save Selection
		
8 Mode Clear		Mode Clear
		
9 Batch Settings		Batch Menu
		
10 Main Display		Main Display
		

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Flow Display | Controller | Batcher

STEPS	DISPLAY	OPERATION
11 Batching Mode  		BATCHING MODE R1 R2 Σ Note: Switching between Flow rate, Totalizer and Batching can be done by pressing Σ/RESET button. Kind of displayed value is signalised by "Σ" LED. Σ LED ON : Totalizer Σ LED OFF: Flow Rate Σ LED Pulsing: Batching
12 Clear Batch 		Clear Batch
13 Main Display		Main Display

Resetting Totalizer

STEPS	DISPLAY	OPERATION
1 Main Display  		MAIN DISPLAY
2 Relay 1  X 5		Relay 1 Settings
3 Totalizer Menu 		TOTALIZER Menu
4 Totalizer Resolution  X 5		BATCH RESOLUTION
5 Mode Clear 		MODE CLEAR
6 oFF on 		Press  or  → Select on

STEPS	DISPLAY	OPERATION
7 Save		Save Selection
8 Mode Clear		Mode Clear
9 Totalizer Menu		Totalizer Menu
10 Main Display X 2		Main Display
11 Totalizer Mode		TOTALIZER MODE R1 R2 Σ Note: Switching between Flow rate, Totalizer and Batching can be done by pressing Σ/RESET button. Kind of displayed value is signalised by "Σ" LED. Σ LED ON : Totalizer Σ LED OFF: Flow Rate Σ LED Pulsing: Batching
12 Clear		Clear Totalizer
13 Main Display		Main Display

Setting Decimal Point

STEPS	DISPLAY	OPERATION
1 Main Display		MAIN DISPLAY
 ESC MENU  3 SEC		
2 Relay 1		Relay 1 Settings
 ✓ x 3		
3 Flow Menu		FLOW Menu *
 ENTER PAUSE		
4 Flow Precision		FLOW PRECISION
 ENTER PAUSE		
5 Decimal Point		DECIMAL POINT
 ENTER PAUSE		
		Press  or  to change Decimcal Point
6 Save		Save Selection
 ENTER PAUSE		
7 Flow Precision		Flow Precision
 ESC MENU		
8 Flow Menu		Flow Menu
 ESC MENU		
9 Main Display		Main Display

* To change decimal points for Batch | Totalizer, select Batch | Totalizer Menu

Factory Reset

STEPS	DISPLAY	OPERATION
1 Main Display  ESC MENU  3 SEC		MAIN DISPLAY
2 Relay 1  ✓ 14x		Relay 1
3 Factory Reset  ENTER		FACTORY RESET
4 Password  ENTER  2 SEC		PASSWORD Enter Password: 5465 Press  or  to change digit Press  to advance to next digit
5 Save Selection  ENTER		Save Selection
6 Factory Reset  ESC MENU		Factory Reset
7 Main Display		Main Display

Default Settings List

Parameters of relay R1 Operation ("rELAy1" Menu)		
Parameter	Description	Default
SourCE	Kind of value controlled relay state	FLo
SEt P	Relay first threshold	20.0
SEt P2	Relay second threshold	30.0
HYSt	Hysterisis of relay	0.0
b PrEc	Precision of thresholds displaying (while relay is controlled due to batcher counter value)	0
b unit	The unit of thresholds displaying (while relay is controlled due to batcher counter value)	unit
t PrEc	Precision of thresholds and hysteresis displaying (while relay is controlled due to total flow counter value)	0
t unit	The unit of thresholds and hysteresis displaying (while relay is controlled due to total flow counter value)	unit
modE	Operation mode of relay	in
t on	Turn on delay of relay	0.0 (Sec)
t oFF	Turn off delay of relay	0.0 (Sec)
unit	Unit of "t on", "t off" parameters of relay	SEC
ALArMS	Reaction for critical situation of relay	oFF

Parameters of relay R2 Operation ("rELAy2" Menu)		
Parameter	Description	Default
SourCE	Kind of value controlled relay state	FLo
SEt P	Relay first threshold	40.0
SEt P2	Relay second threshold	50.0
HYSt	Hysterisis of relay	0.0
t PrEc	Precision of thresholds and hysteresis displaying (while relay is controlled due to total flow counter value)	0
t unit	The unit of thresholds and hysteresis displaying (while relay is controlled due to total flow counter value)	unit
modE	Operation mode of relay	in
t on	Turn on delay of relay	0.0 (Sec)
t oFF	Turn off delay of relay	0.0 (Sec)
unit	Unit of "t on", "t off" parameters of relay	SEC
ALArMS	Reaction for critical situation of relay	oFF

Configuration of Current Flow Display ("FLouu" Menu)		
Parameter	Description	Default
I tyPE	Input mode	4-20
I CHAr	Conversion Characteristic Mode	LinEAr
Point	Decimal point position (precision of the flow rate displaying)	0.0
F unit	The unit of volume (Cubic measure) for flow rate displaying	unit
Ftunit	The unit of time for flow rate displaying	min
F or P	Kind of value visible on the display	FL vAL
Lo CAL	Minimum displayed value (for nominal range)	000.0
Hi CAL	Maximum displayed value (for nominal range)	100.0
F coEF	Flow calculation coefficient	1.000
CutoFF	Cutoff threshold	1.0 (%)
Lo r	Extension of the bottom of the nominal input range	5.0 (%)
Hi r	Extension of the top of the nominal input range	5.0 (%)

Configuration of Batcher Counter Reset and Displaying Mode ("bAtCH" menu)		
Parameter	Description	Default
b PrEC	Decimal point position (precision of batcher counter displaying)	0.0
b coEF	Batch calculation coefficient	1.000
b unit	The unit of batcher counter displaying	unit
CLrbAt	Clear batch	
m CLr	Manual zeroing of batch counter	oFF
A rES	Batcher autoreset function	oFF
Atunit	Time unit of autoreset delay	SEC
A dLy	Batcher autoreset delay	0

Configuration of Total Flow Counter Reset and Displaying Mode ("totAL" menu)		
Parameter	Description	Default
t PrEC	Decimal point position (precision of total flow counter displaying)	0.0
t coEF	Total flow calculation coefficient	1.000
t unit	The unit of total flow counter displaying	unit
CLrtot	Clear totalizer	
m CLr	Manual zeroing of total flow counter	oFF

Programmable Input Configuration ("Pr inP" menu)		
Parameter	Description	Default
Funct	Programmable input function	diSAbL
modE	Active level/edge of programmable input	HI

Power on Initialization Configuration ("Init d" menu)		
Parameter	Description	Default
Init d	Kind of value displayed after device power on	FLo

Configuration of Data Filtration ("FiLteR" menu)		
Parameter	Description	Default
vAlUE	Filtering ratio	0
droP	Measured value change causing of temporal filtering deactivation	10.0 (%)

Passive Current Output Configuration ("OUtPUt" menu)		
Parameter	Description	Default
OUtmod	Passive current output mode	4-20 (mA)
SourCE	Kind of value controlled active current output	FLo
OUt LO	Display value for 4 mA current output	000.0
OUt HI	Display value for 20 mA current output	200.0
b PrEc	Precision of "OUt LO" and "OUt HI" parameters displaying, while active current output is controlled due to batcher counter value.	0
b unit	The unit of "OUt LO" and "OUt HI" parameters displaying, while active current output is controlled due to batcher counter value.	unit
t PrEc	Precision of "OUt LO" and "OUt HI" parameters displaying, while active current output is controlled due to total flow counter value.	0
t unit	The unit of "OUt LO" and "OUt HI" parameters displaying, while active current output is controlled due to total flow counter value.	unit
Lo r	Extension of the bottom of the nominal output range	5.0 (%)
Hi r	Extension of the top of the nominal output range	5.0 (%)
AL	Current output value on critical exception	22.1 (mA)

Display Parameters		
Parameter	Description	Default
briGHt	Display brightness	bri 6

Configuration of Peaks Detection Function ("HOLd" menu)		
Parameter	Description	Default
modE	kind of detected changes	norm
PEA	Minimum detected change	000.0
timE	Maximum time of peak displaying	0.0 (sec)
HdiS	The type of displayed value	rEAL
H r1	Source of relay R1, and LED R1 control	rEAL
H r2	Source of relay R2, and LED R2 control	rEAL
HOUt	Source of current output control	rEAL

Settings of Access to the Configuration Parameters ("SECU" menu)		
Parameter	Description	Default
Acc r1	Permission to changes of relay R1 threshold without the user password	on
Acc r2	Permission to changes of relay R2 threshold without the user password	on

RS485 Interface Configuration ("rs-485" menu)		
Parameter	Description	Default
Addr	Device Address	0
bAud	Baud Rate	9600 (b/s)
mbAccE	Permission to changes of configuration registers	on
mbtimE	Maximum delay between recieved messages	0
rESP	Additional delay of answer transmission	Std

Configuration of Numerical Parameters Edition ("Edit t" menu)		
Parameter	Description	Default
Edit t	Numerical parameters edit mode	dig

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