

# 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:

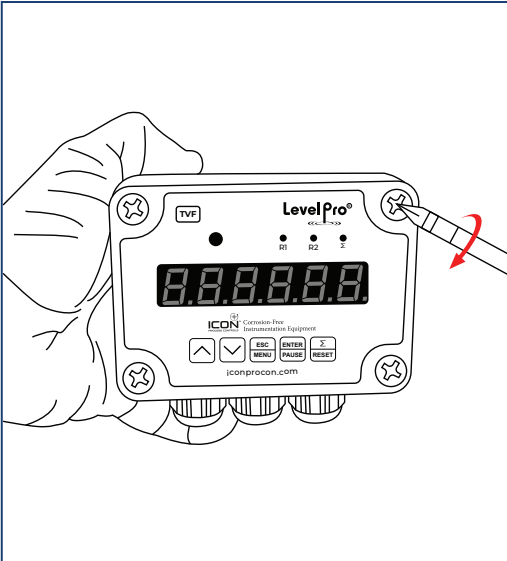
- Change of the present menu
- Modification of the parameter value
- Switching of the display between relay thresholds and number of batches counter.

# LevelPro® — TVF Series

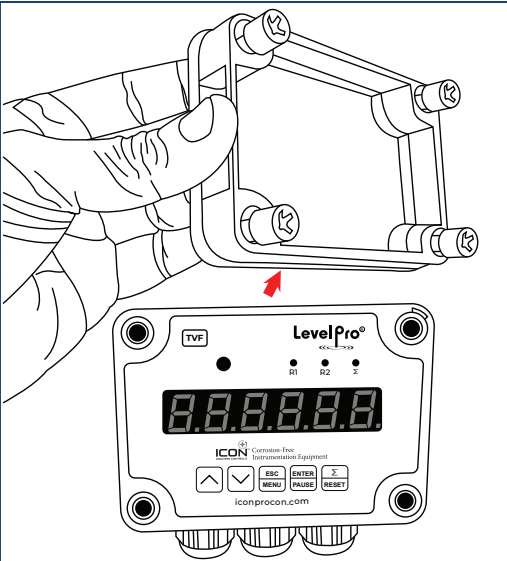
## Flow Display | Controller | Batcher

### Installation – Wall Mount

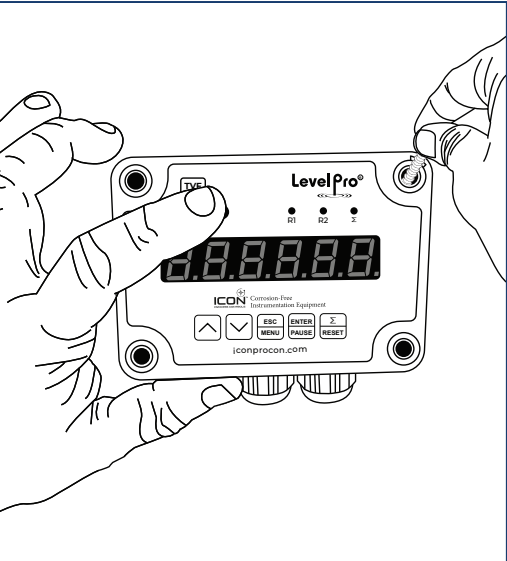
**Note :** Ensure that holes are made on the wall according to the provided dimensions.



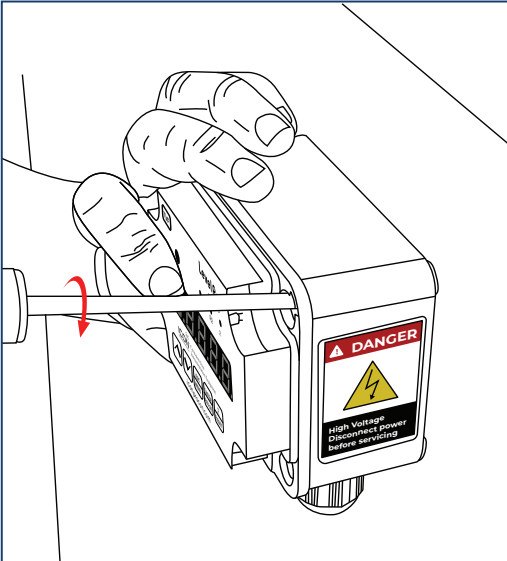
Loosen Box Screws



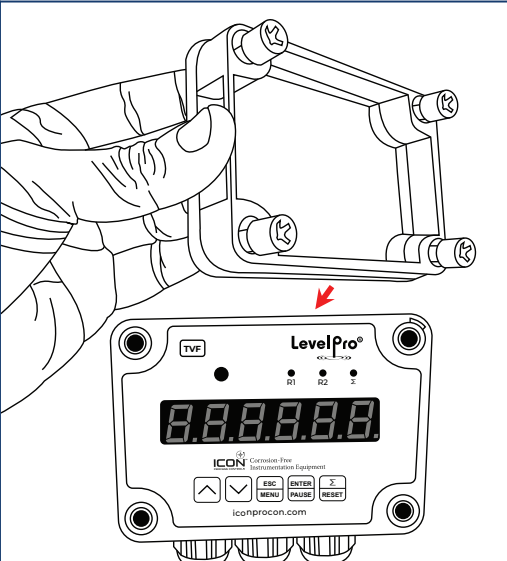
Remove Display Cover



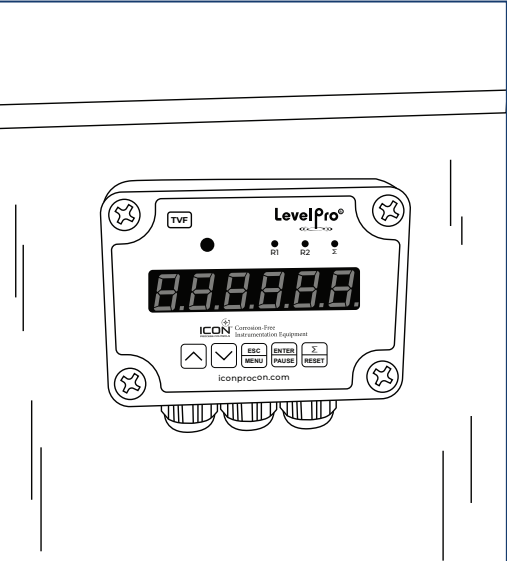
Insert the Wall Screws



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



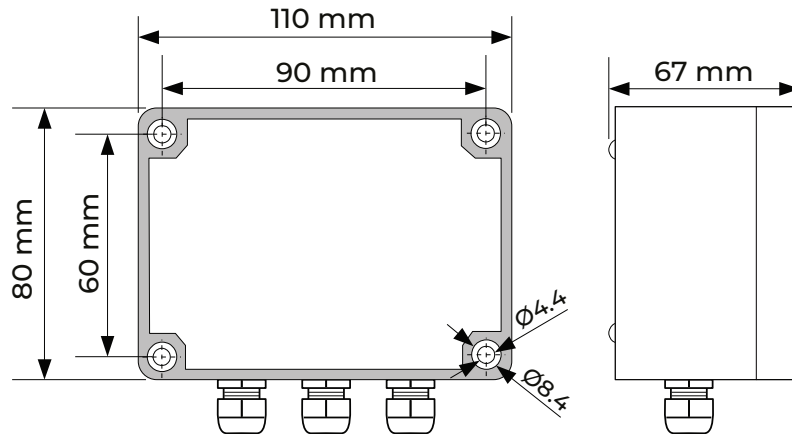
Replace the display cover and securely tighten the box screws.



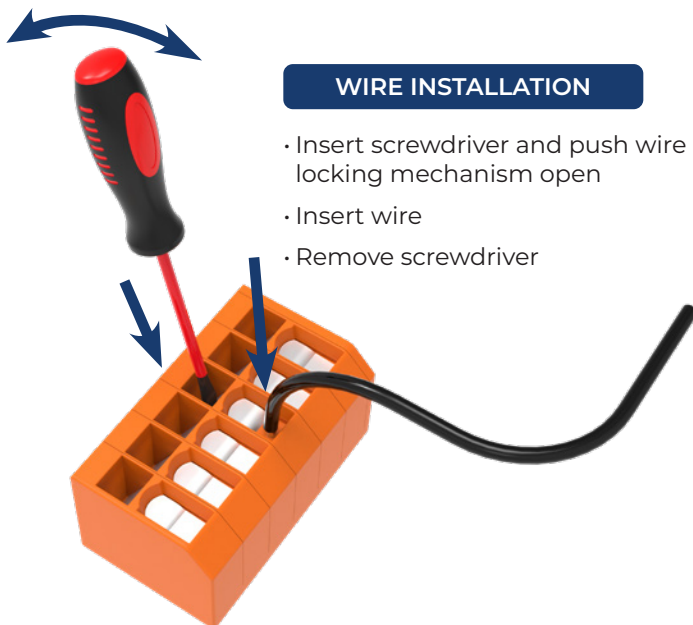
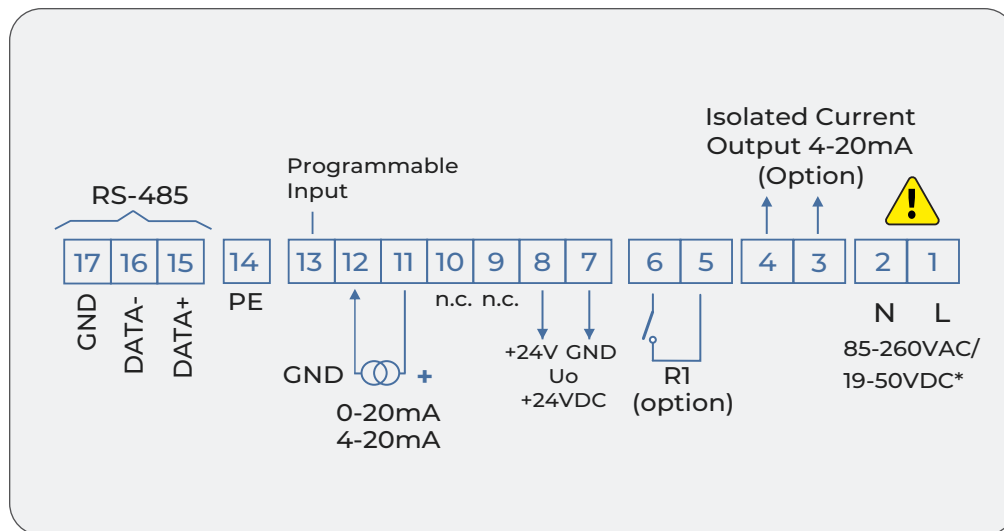
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## Flow Display | Controller | Batcher

### Dimensions



### Wiring Diagram



#### WIRE INSTALLATION

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

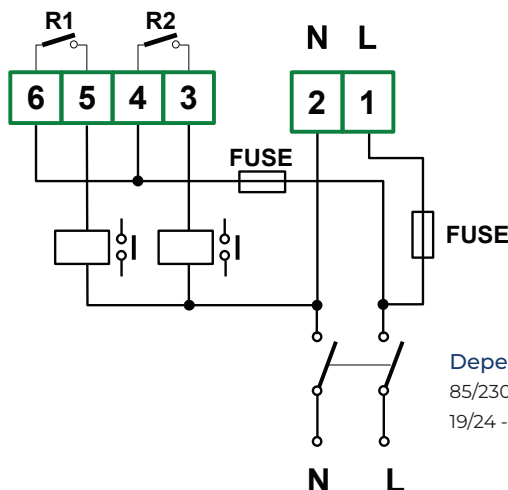


**Due to possible significant interference in industrial installations, appropriate measures assuring correct operation of the unit must be applied.**

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

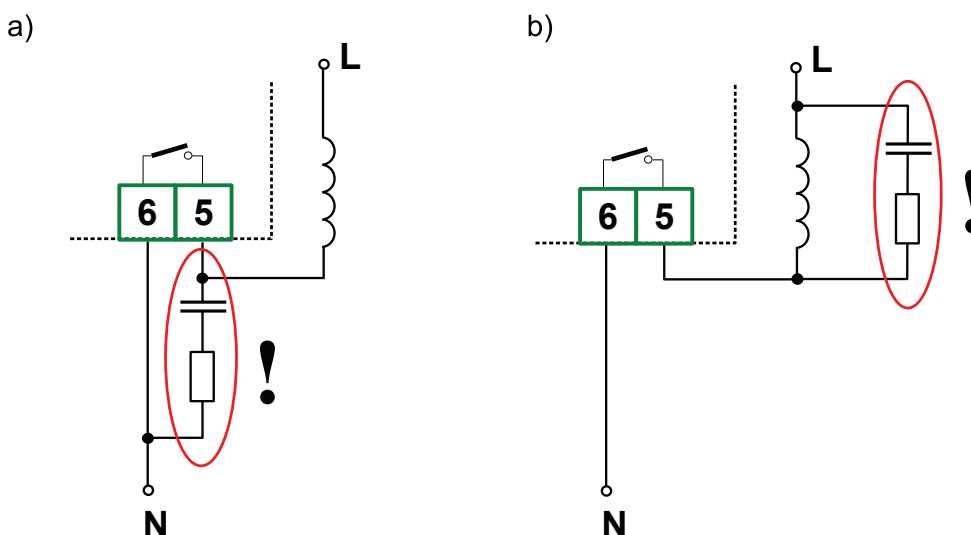


Figure: Examples of Suppression Circuit Connection  
a) To Stepper Relay Terminals b) To the Inductive Load (Motor)

OC-Type Output Connection

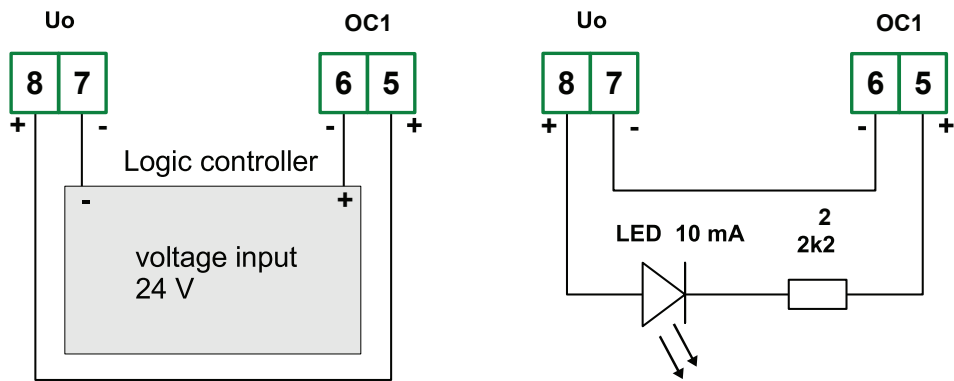


Figure: Examples of OC-type output connection

Current Output Connection Using Internal Power Supply

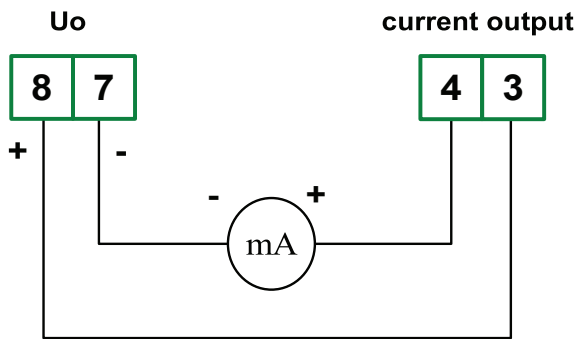


Figure: Example of current output connection using internal power supply

Current Output Connection Using External Power Supply

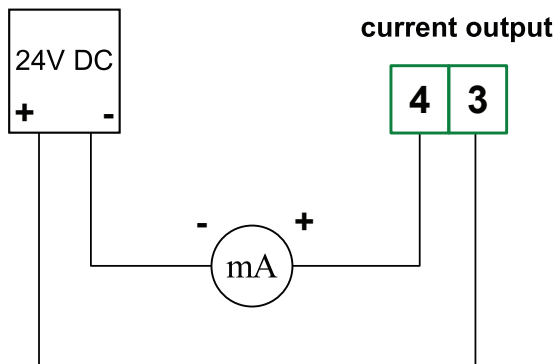
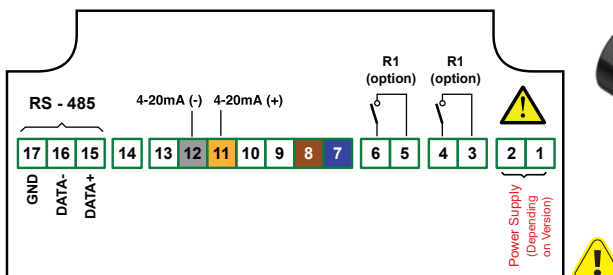


Figure: Example of current output connection using external power supply

### 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-

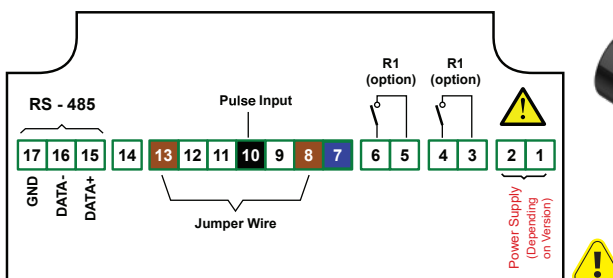


#### TKS Series : Pulse Output

GPM/Pulse = K factor

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

Jump 13 & 8

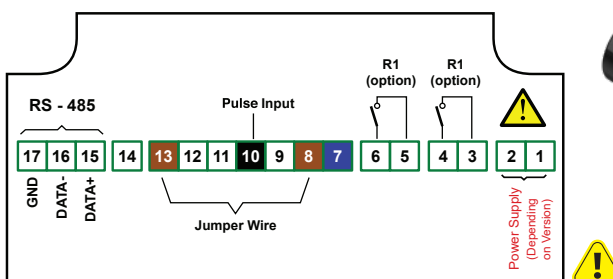


#### TKW Series : Pulse Output

GPM/Pulse = K factor

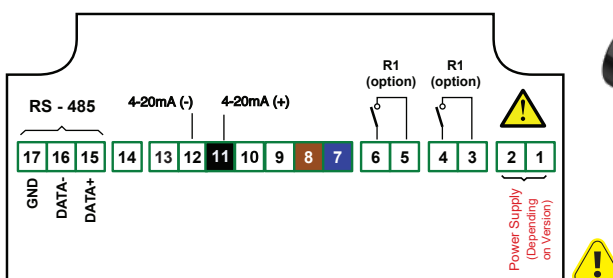
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	Pulse

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-

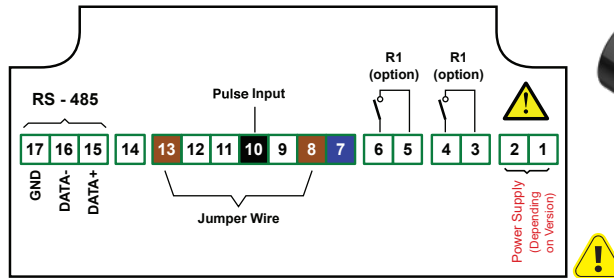




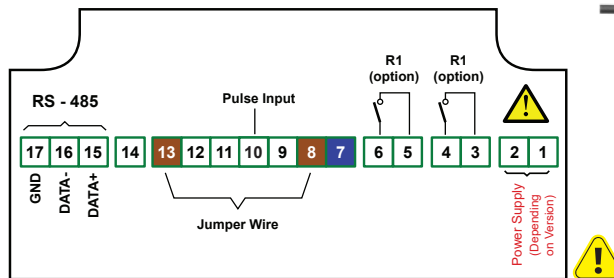
# LevelPro® — TVF Series

## Flow Display | Controller | Batcher

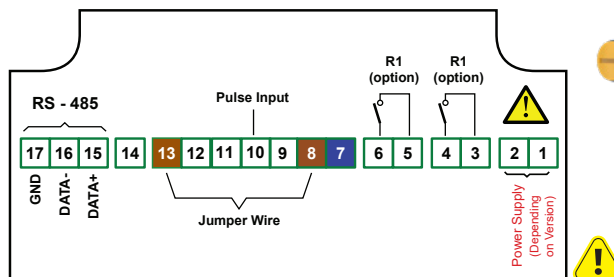
TKM   TKP Series : Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	Pulse
Jump 13 & 8		



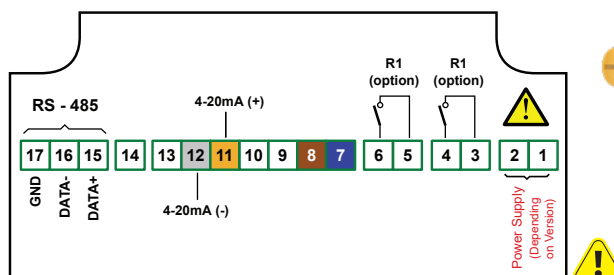
TIW Series : Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	White	Pulse
Jump 13 & 8		



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-

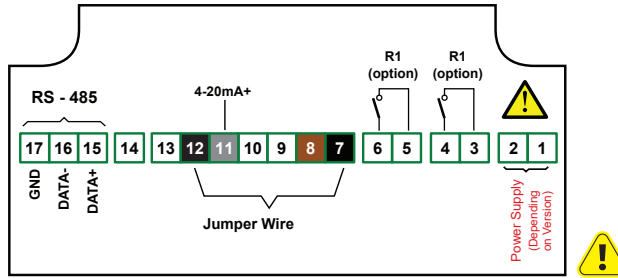


# LevelPro® — TVF Series

## Flow Display | Controller | Batcher

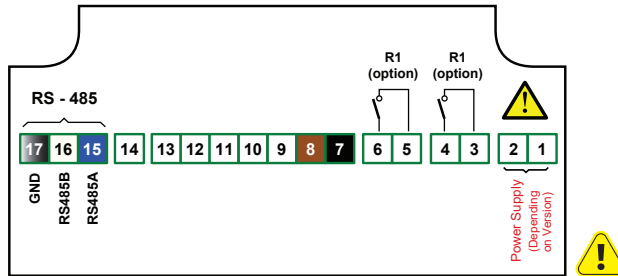
### UF500 – 4-20mA Output

TVF Terminal	Wire Color	Description
7	Black	-VDC
8	Brown	+VDC
11	Gray	+mA
Jump 12 & 7		



### UF500 – RS485 Output

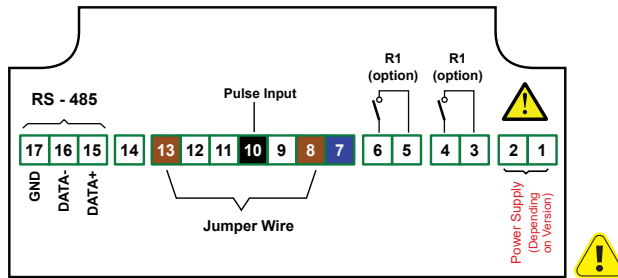
TVF Terminal	Wire Color	Description
7	Black	-VDC
8	Brown	+VDC
15	Blue	RS485A
16	White	RS485B
17	Shield (Thick Black)	GND



### UF 1000 | 4000 | 5000 – Pulse Output

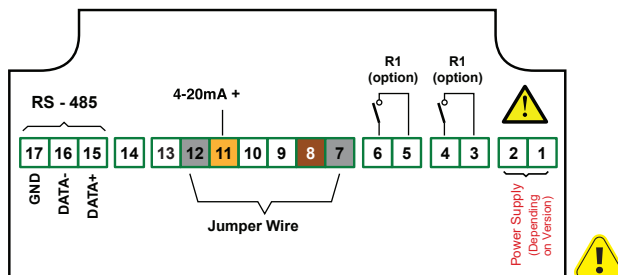
GPM/Pulse = K factor

TVF Terminal	Pin	Description
8	1	+VDC
10	2	Pulse
7	3	-VDC
Jump 13 & 8		



### UF 1000 | 4000 | 5000 – 4-20mA Output

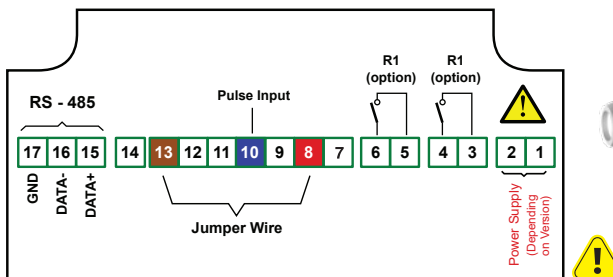
TVF Terminal	Pin	Description
8	1	+VDC
11	2	+mA
7	3	-VDC
Jump 12 & 7		



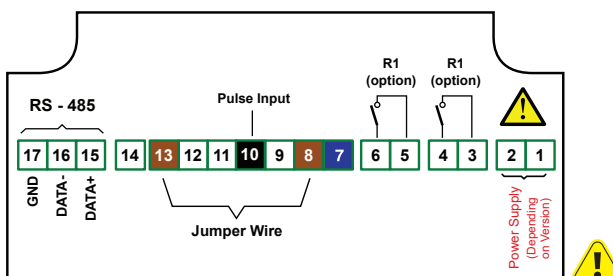
# LevelPro® — TVF Series

## Flow Display | Controller | Batcher

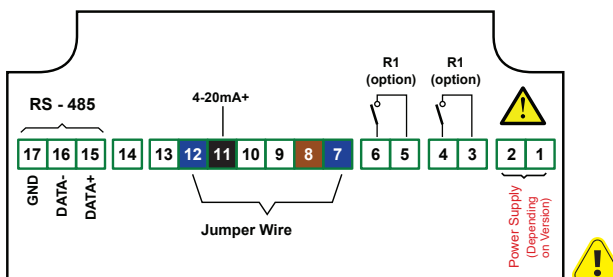
ProPulse (Flying Lead) – Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Wire Color	Description
7	Shield	-VDC
8	Red	+VDC
10	Blue	Pulse
Jump 13 & 8		



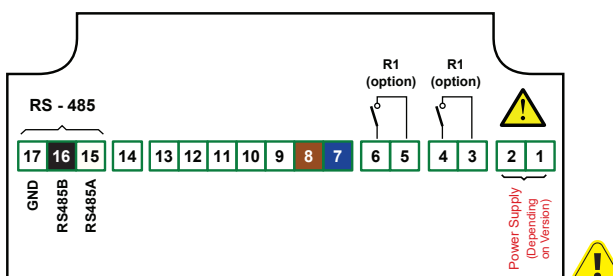
ProPulse®2 – Pulse Output		
GPM/Pulse = K factor		
TVF Terminal	Wire Color	Description
7	Blue	-VDC
8	Brown	+VDC
10	Black	Pulse
Jump 13 & 8		



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
<b>1 Main Display</b>  <b>ESC MENU</b>  3 SEC		<b>MAIN DISPLAY</b>
<b>2 Relay 1</b>   X 2		<b>RELAY 1</b> Settings
<b>3 Input</b>  <b>ENTER PAUSE</b>		<b>INPUT</b> Menu
<b>4 K Factor</b>  <b>ENTER PAUSE</b>		Press  or  → Select <b>PULSE</b> (K Factor)
<b>5 K Factor Value</b>  <b>ENTER PAUSE</b>  2 SEC		Enter <b>K FACTOR</b> 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.
<b>6 Save Value</b>  <b>ENTER PAUSE</b>		Save Selection
<b>7 K Factor</b>  <b>ESC MENU</b>		<b>PULSE</b>
<b>8 Input</b>  <b>ESC MENU</b>		<b>Input</b> Menu
<b>9 Main Display</b>		<b>Main Display</b>

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

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

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## Flow Display | Controller | Batcher








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

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 <b>FLo</b> (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 <b>SET POINT 1</b> 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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## Flow Display | Controller | Batcher

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



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## Flow Display | Controller | Batcher

STEPS	DISPLAY	OPERATION
<div>21</div> <div>Save</div> <div></div>		Save Selection
<div>22</div> <div>Mode</div> <div></div>		Mode Menu
<div>23</div> <div>Relay 1</div> <div></div>		Relay 1 Menu
<div>24</div> <div>Main Display</div>		Main Display

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## Flow Display | Controller | Batcher




























### 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 <b>bAt</b> (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 <b>SET POINT</b> 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		<b>BATCHING MODE</b>    <b>Note:</b> Switching between Flow rate, Totalizer and Batching can be done by pressing $\Sigma$ /RESET button. Kind of displayed value is signalled by " $\Sigma$ " LED. $\Sigma$ LED ON : Totalizer   $\Sigma$ LED OFF: Flow Rate   $\Sigma$ LED Pulsing: Batching
 ENTER PAUSE to start batching		

# LevelPro® — TVF Series

## Flow Display | Controller | Batcher

### Programming Output (For 4-20mA Output Models)





















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

# LevelPro® — TVF Series

## Flow Display | Controller | Batcher







STEPS	DISPLAY	OPERATION
<b>11 Source</b> 		Source Menu
<b>12 4mA</b> 		Setting <b>4mA (LOW VALUE)</b>
<b>13 4mA Value</b> 2 SEC		Enter <b>4mA</b> Value Press  or  to change digit Press  to advance to next digit
<b>14 Save</b> 		Save Value
<b>15 4mA</b> 		4mA (Low Value)
<b>16 20mA</b> 		Setting <b>20mA (HIGH VALUE)</b>
<b>17 20mA Value</b> 2 SEC		Enter <b>20mA</b> Value Press  or  to change digit Press  to advance to next digit
<b>18 Save</b> 		Save Value
<b>19 20mA</b> 		20mA (High value)
<b>20 Output</b> 		Output Menu
<b>21 Main Display</b>		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
 ENTER PAUSE		
4 Batch Resolution		BATCH RESOLUTION
 X 5		
5 Mode Clear		MODE CLEAR
 ENTER PAUSE		
6 oFF   on		Press  or  → Select on
 ENTER PAUSE		
7 Save		Save Selection
 ENTER PAUSE		
8 Mode Clear		Mode Clear
 ESC MENU		
9 Batch Settings		Batch Menu
 ESC MENU		
10 Main Display		Main Display
 Σ RESET		

# LevelPro® — TVF Series

## Flow Display | Controller | Batcher














STEPS	DISPLAY	OPERATION
<div>11</div> <div>Batching Mode</div> <div> 3 SEC</div>		<div><b>BATCHING MODE</b></div> <div></div> <div><b>Note:</b> Switching between Flow rate, Totalizer and Batching can be done by pressing <math>\Sigma</math>/RESET button. Kind of displayed value is signalled by "<math>\Sigma</math>" LED.</div> <div><math>\Sigma</math> LED ON : Totalizer   <math>\Sigma</math> LED OFF: Flow Rate   <math>\Sigma</math> LED Pulsing: Batching</div>
<div>12</div> <div>Clear Batch</div> <div></div>		Clear Batch
<div>13</div> <div>Main Display</div>		Main Display

### Resetting Totalizer







STEPS	DISPLAY	OPERATION
<div>1</div> <div>Main Display</div> <div> 3 SEC</div>		<b>MAIN DISPLAY</b>
<div>2</div> <div>Relay 1</div> <div> X 5</div>		Relay 1 Settings
<div>3</div> <div>Totalizer Menu</div> <div></div>		<b>TOTALIZER</b> Menu
<div>4</div> <div>Totalizer Resolution</div> <div> X 5</div>		<b>BATCH RESOLUTION</b>
<div>5</div> <div>Mode Clear</div> <div></div>		<b>MODE CLEAR</b>
<div>6</div> <div>oFF   on</div> <div></div>		Press  or  $\rightarrow$ Select <b>on</b>

# LevelPro® — TVF Series

## Flow Display | Controller | Batcher

STEPS	DISPLAY	OPERATION
<div>7</div> <div>Save</div> <div>  <div>ENTER</div> <div>PAUSE</div> </div>		Save Selection
<div>8</div> <div>Mode Clear</div> <div>  <div>ESC</div> <div>MENU</div> </div>		Mode Clear
<div>9</div> <div>Totalizer Menu</div> <div>  <div>ESC</div> <div>MENU</div> </div>		Totalizer Menu
<div>10</div> <div>Main Display</div> <div>  <div>Σ</div> <div>RESET</div> <div>X 2</div> </div>		Main Display
<div>11</div> <div>Totalizer Mode</div> <div>  <div>Σ</div> <div>RESET</div> <div>3 SEC</div> </div>		<div> <div>TOTALIZER MODE</div> <div> <div>R1</div> <div>R2</div> <div>Σ</div> </div> </div> <p><b>Note:</b> Switching between Flow rate, Totalizer and Batching can be done by pressing Σ/RESET button. Kind of displayed value is signalised by "Σ" LED.</p> <p>Σ LED ON : Totalizer   Σ LED OFF: Flow Rate   Σ LED Pulsing: Batching</p>
<div>12</div> <div>Clear</div> <div>  <div>ENTER</div> <div>PAUSE</div> </div>		Clear Totalizer
<div>13</div> <div>Main Display</div>		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



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