LevelPro® — TVF-450 Series
Industrial Flow Batching Controller

ICON™ PROCESS CONTROLS
Corrosion-Free
Instrumentation Equipment

Quick Start Manual

Large Bright
LED Display

NORYL Housing

LevelPro® — TVF-450 Series
Industrial Flow Batching Controller

ICON PROCESS CONTROLS™
Corrosion-Free
Instrumentation Equipment
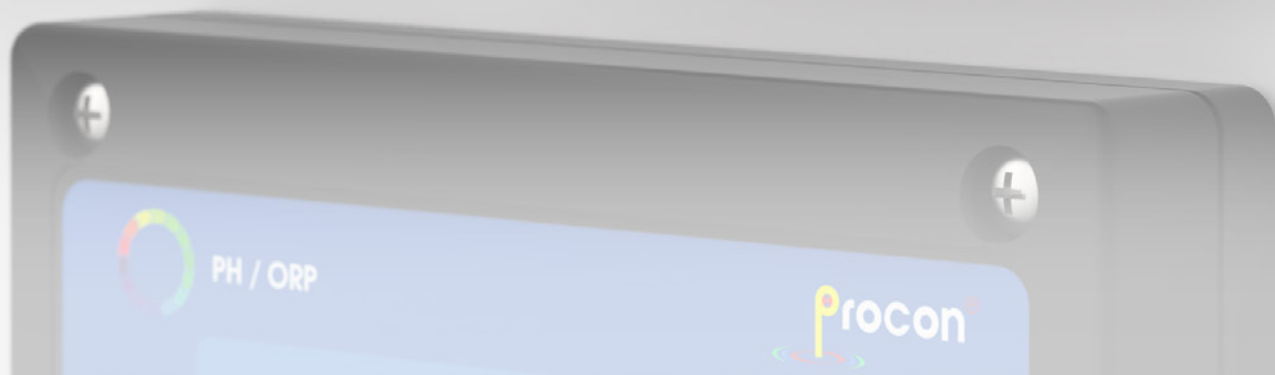
Symbol Explanation ⚠️

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.

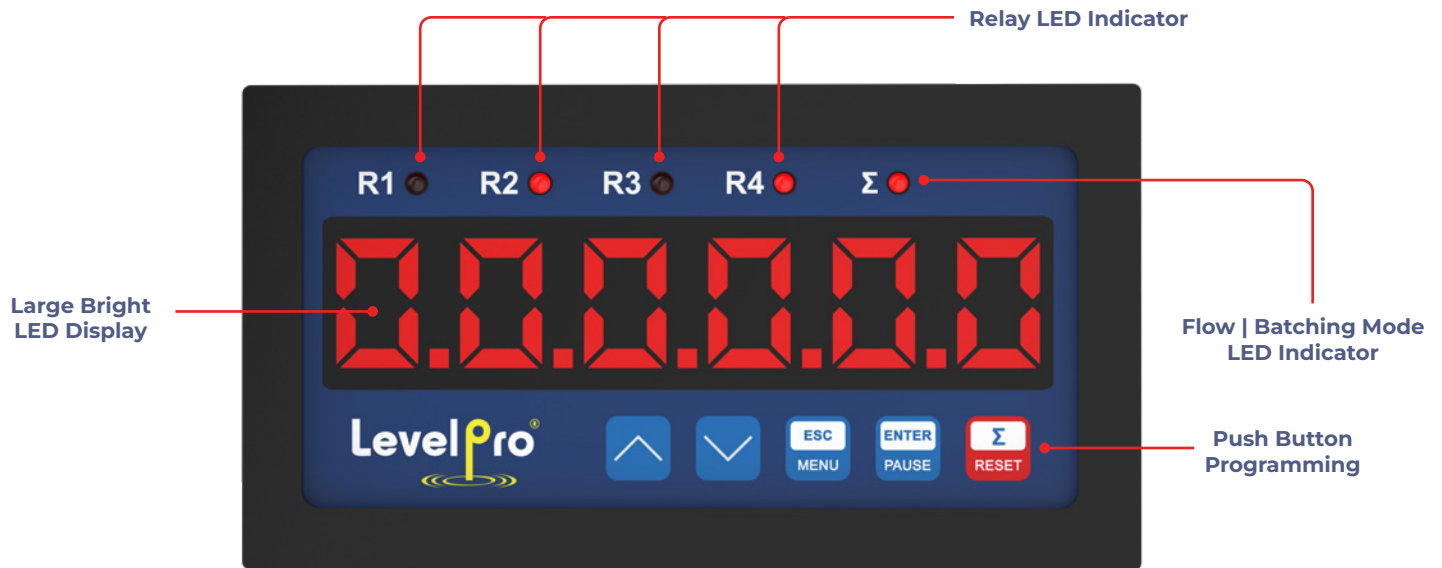## Basic Requirements | User Safety

⚠️

- 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.

Specifications

General	
Display	LED	6 Digit	13mm High	Red
Displayed Values	-99999 ~ 999999
RS485 Transmission	1200...115200 bit/s, 8N1 / 8N2	RS485
Housing Material	NORYL
Protection Class	IP65
**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 (1A)	4-20mA + 1 x Relay (1A)
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 - 122°F	-40 - 50°C

*Optional

Front Panel Description

Relay LED Indicator

Large Bright LED Display

Flow | Batching Mode LED Indicator

Push Button Programming

Function of Push Buttons

ESC / MENU

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

ENTER / PAUSE

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
- In batcher mode : Pause / Start Batching

Σ / RESET

Symbol used in the manual : [Σ /RESET]

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

Symbol used in the manual : [∧] [∨]

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

Dimensions
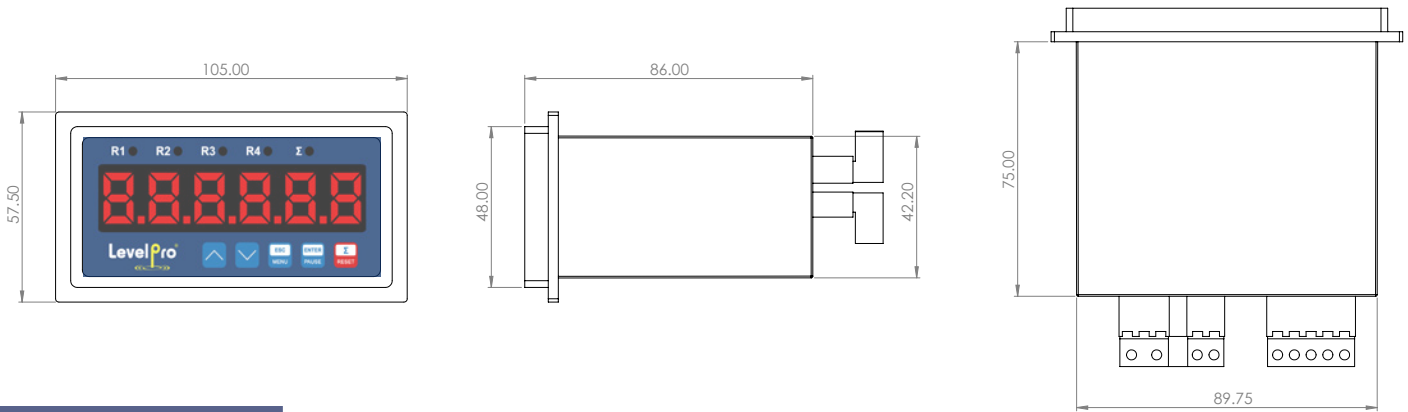
Wiring Diagram

Power Supply**   **4-20mA Output***   **Sensor** +24V   **RS485** GND   DATA-   DATA+

** Depending on Version
85/230/260V AC/DC ; 50 - 60 Hz
19/24 - 50V DC ; 16/24/35V AC

| 1 | 2 | | 3 | 4 | | 5 | 6 | 7 | 8 | 9 |

- +   +V   -V

| 10 | 11 | 12 | 13 | 14 | 15 | 31 | 32 | 33 | 34 | 35 |

N.C.   N.C.

Relay 1   Relay 2

Pulse Input   mA+   mA-
4-20mA Input

* Optional
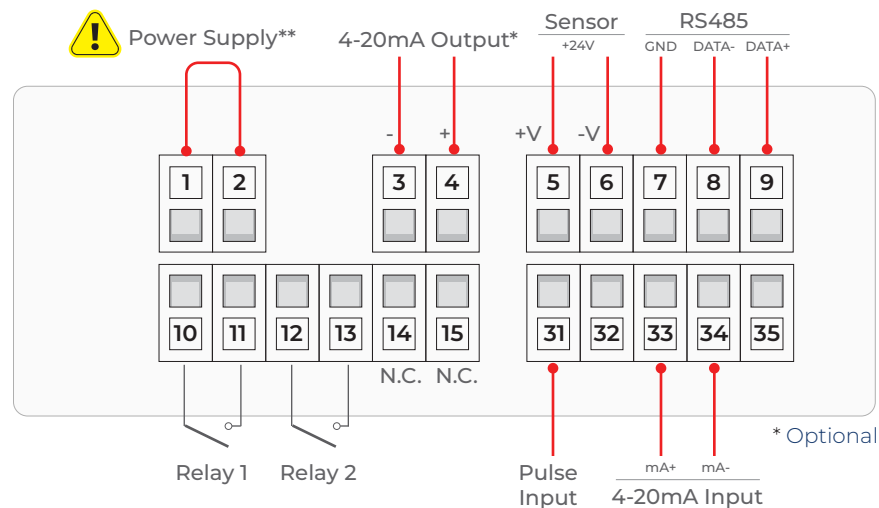
Wire Connection

- Loosen Set Screw
- Insert Wire
- Tighten Set Screw
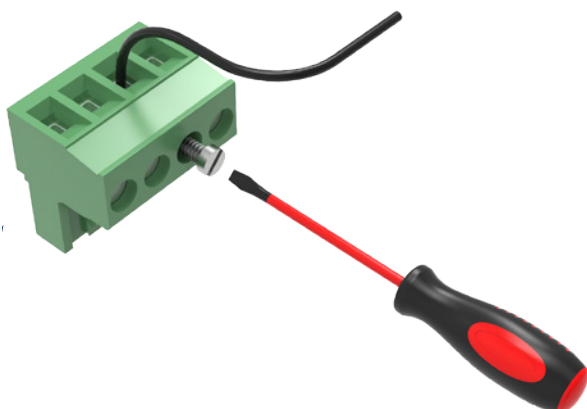
Due to possible significant interference in industrial installations, appropriate measures assuring correct operation of the unit must be applied.

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.

Installation

1. The unit is designed for mounting inside housings (control panel, switchboard) insuring appropriate protection against surges and interference. Metal housings must be connected to ground in a way that complies with the governing regulations.

2. Disconnect the power supply prior to starting assembly.

3. Check the connections are wired correctly prior to switching the unit on.

In order to install the unit, a 90.5 x 43 mm mounting hole (Figure A, B) must be prepared. The thickness of the material of which the panel is made must not exceed 5mm. When preparing the mounting hole take the grooves for catches located on both sides of the housing into consideration (Figure A, B). Place the unit in the mounting hole inserting it from the front side of the panel, and then fix it using the brackets (Figure C). The minimum distances between the centre points of multiple units, due to the thermal and mechanical conditions of operation are 115 mm x 67mm (Figure D).
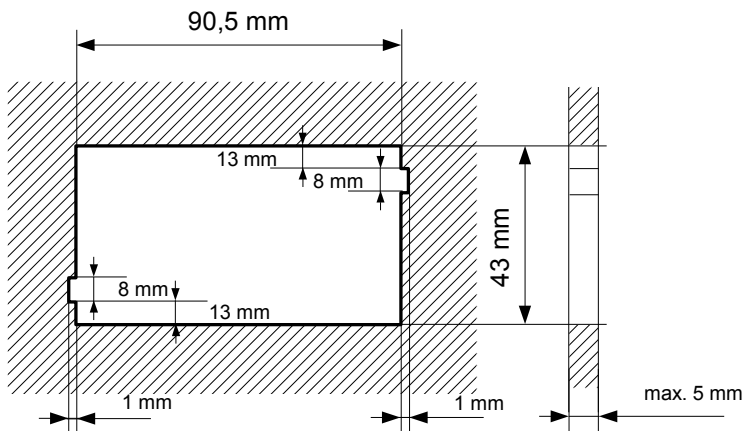
Fig.A – Recommended Mounting Hole Dimensions
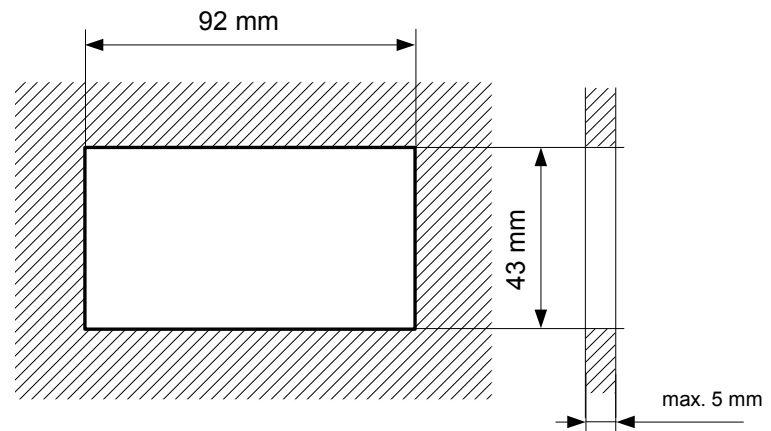
Fig.B – Allowable Mounting Hole Dimensions
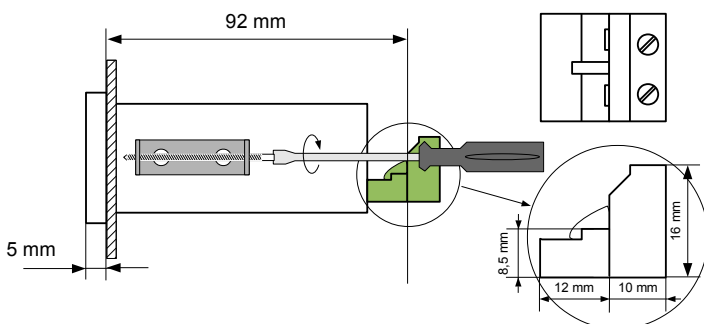
Fig.C – Bracket Installation & Connector Dimensions
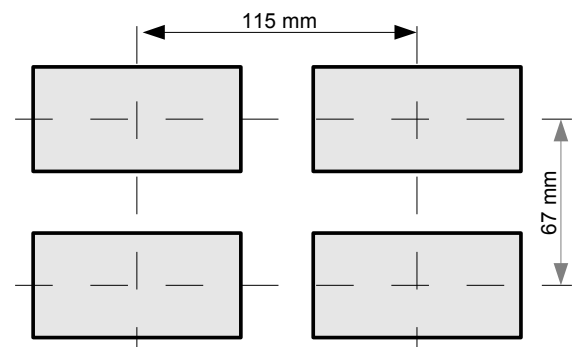
Fig.D – Minimum Distances when Assembling More than One Unit

Terminal Descriptions
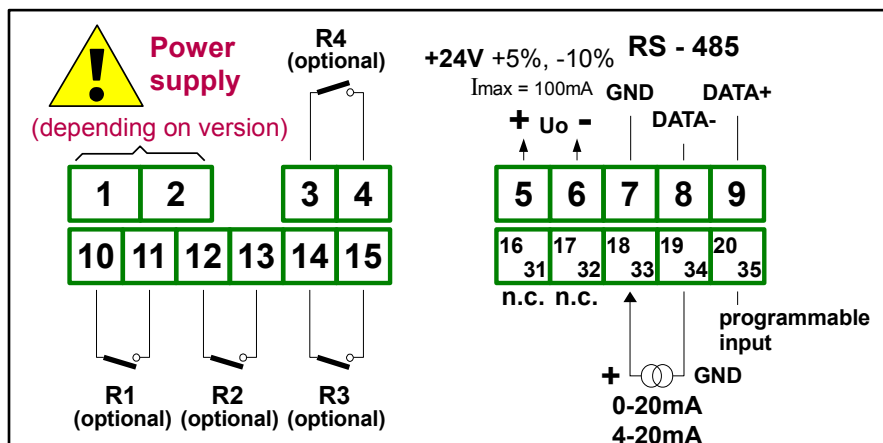
Relay Outputs
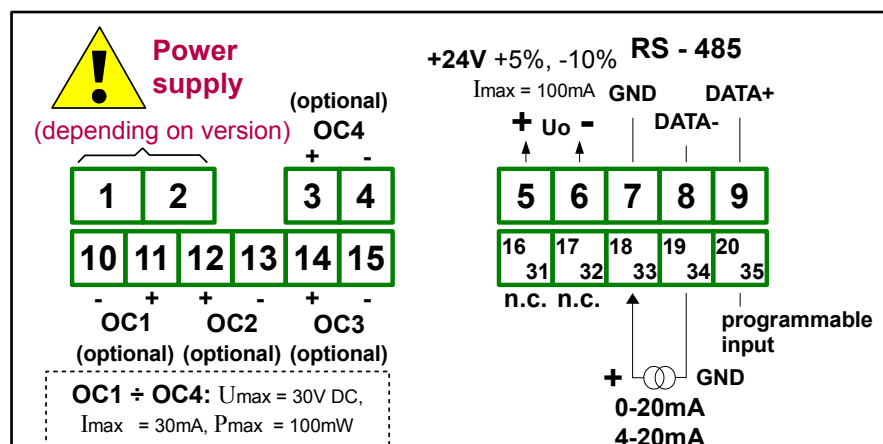
OC - Type Outputs

Relay & Active Current Outputs

Power supply (depending on version)

Passive, isolated Current output 4÷20mA (optional)

+24V +5%, -10% Imax = 100mA

RS - 485 GND DATA+ DATA-

+ Uo -

| 1 | 2 | | 3 | 4 | | 5 | 6 | 7 | 8 | 9 |

| 10 | 11 | 12 | 13 | 14 | 15 |

n.c. n.c.

| 16 31 | 17 32 | 18 33 | 19 34 | 20 35 |

n.c. n.c.

R1 (optional) R2 (optional)

programmable input

+ GND
0-20mA
4-20mA

Relay & Passive Current Outputs

Power supply (depending on version)

ACTIVE voltage output (optional)

+24V +5%, -10% Imax = 100mA

RS - 485 GND DATA+ DATA-

+ Uo -

- +

| 1 | 2 | | 3 | 4 | | 5 | 6 | 7 | 8 | 9 |

| 10 | 11 | 12 | 13 | 14 | 15 |

n.c. n.c.

| 16 31 | 17 32 | 18 33 | 19 34 | 20 35 |

n.c. n.c.

R1 (optional) R2 (optional)

programmable input

+ GND
0-20mA
4-20mA

Relay & Active Voltage Outputs

Power supply (depending on version)

ACTIVE current output (optional)

+24V +5%, -10% Imax = 100mA

RS - 485 GND DATA+ DATA-

+ Uo -

- +

| 1 | 2 | | 3 | 4 | | 5 | 6 | 7 | 8 | 9 |

| 10 | 11 | 12 | 13 | 14 | 15 |

- + + - n.c. n.c.

OC1 (optional) OC2 (optional)

| 16 31 | 17 32 | 18 33 | 19 34 | 20 35 |

n.c. n.c.

OC1 ÷ OC2: $U_{max} = 30V\ DC$, $I_{max} = 30mA$, $P_{max} = 100mW$

programmable input

+ GND
0-20mA
4-20mA

OC - Type & Active Current Outputs
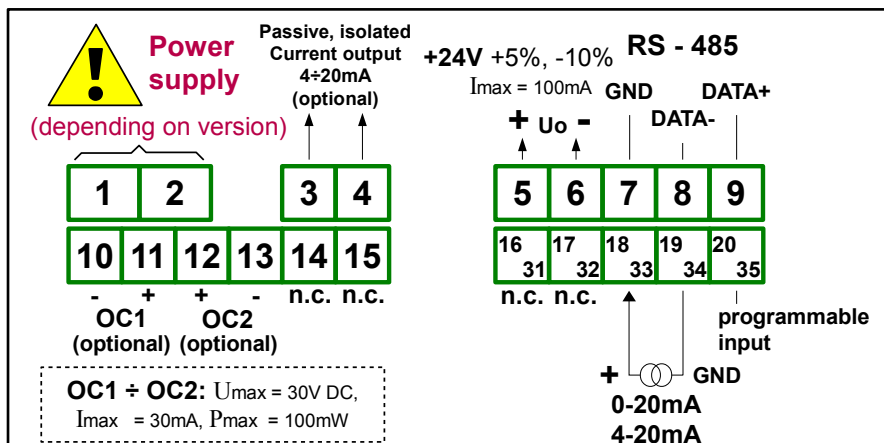
OC - Type & Passive Current Outputs
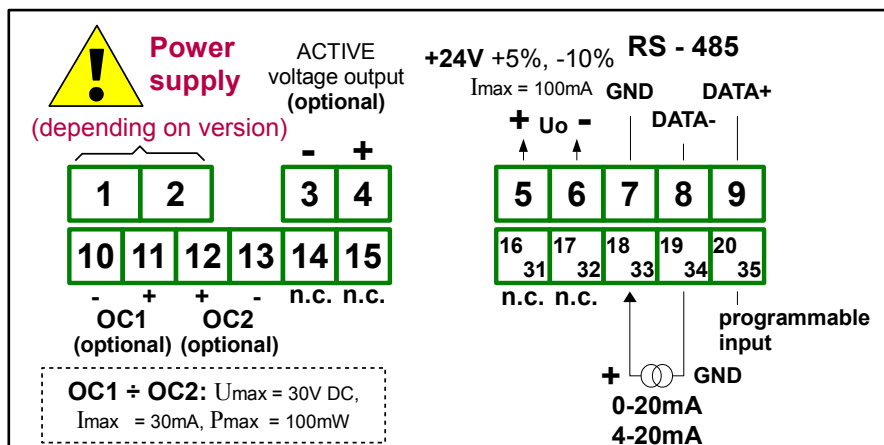
OC - Type & Active Voltage Outputs

Power Supply & Relay Connection
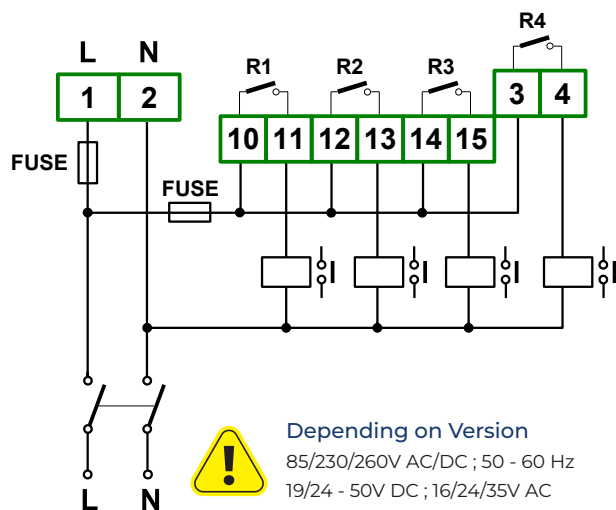
Note:

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.

Depending on Version
85/230/260V AC/DC ; 50 - 60 Hz
19/24 - 50V DC ; 16/24/35V AC

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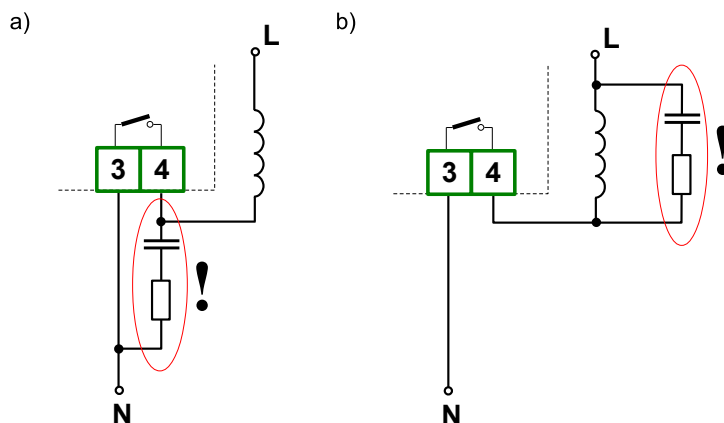
Figure: Examples of Suppression Circuit Connection
a) To Stepper Relay Terminals   b) To the Inductive Load (Motor)

OC-Type Output Connection*
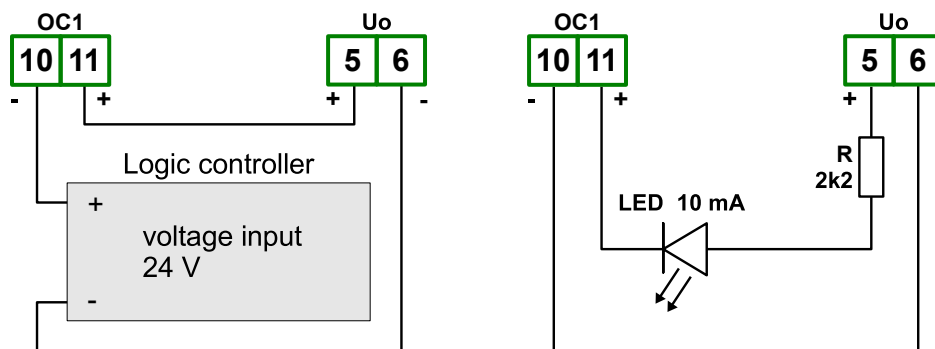
Figure: Examples of OC-type output connection

*Certain Models Only

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Flow Meter Connections

TKM Series : 4-20mA Output

450 Terminal	Wire Color	Description
5	Brown	+VDC
6	Blue	-VDC
33	Yellow	mA+
34	Grey	mA-
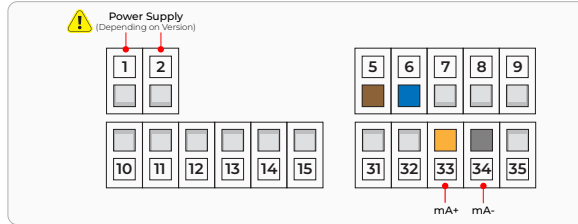
TKS Series : Pulse Output

450 Terminal	Wire Color	Description
GPM/Pulse = K factor		
5	Brown	+VDC
6	Blue	-VDC
31	Black	NPN Pulse
Note : Jump 5 & 35		
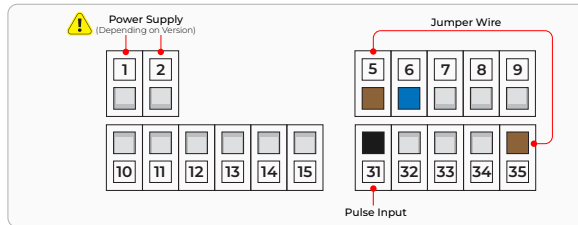
TKW Series : Pulse Output

450 Terminal	Wire Color	Description
GPM/Pulse = K factor		
5	Brown	+VDC
6	Blue	-VDC
31	Black	Pulse
Note : Jump 5 & 35		
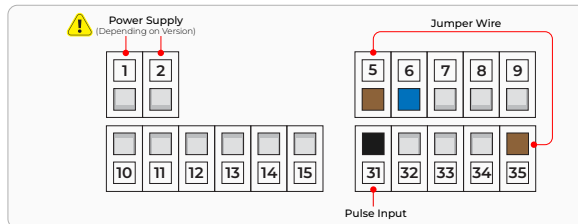
TKW Series : 4-20mA Output

450 Terminal	Wire Color	Description
5	Brown	+VDC
6	Blue	-VDC
33	Black	mA+
34	White	mA-
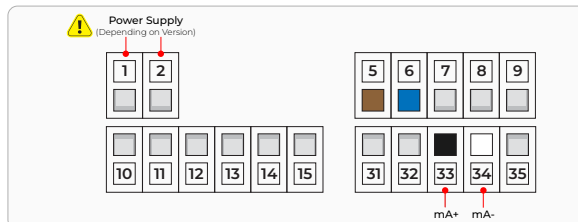
TKM | TKP Series : Pulse Output

GPM/Pulse = K factor		
450 Terminal	**Wire Color**	**Description**
5	Brown	+VDC
6	Blue	-VDC
31	Black	Pulse
Note : Jump 5 & 35		
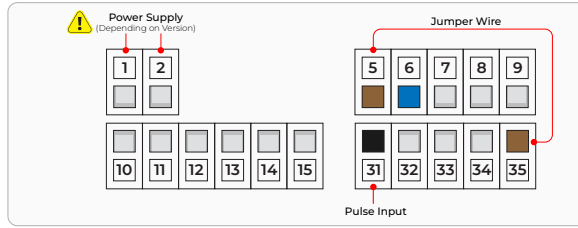
TIW Series : Pulse Output

GPM/Pulse = K factor		
450 Terminal	**Wire Color**	**Description**
5	Brown	+VDC
6	Blue	-VDC
31	White	Pulse
Note : Jump 5 & 35		
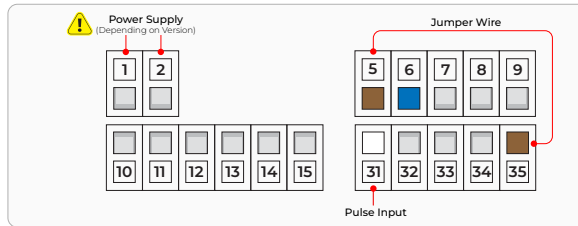
TIM | TIP Series : Pulse Output

GPM/Pulse = K factor		
450 Terminal	**Wire Color**	**Description**
5	Brown	+VDC
6	Blue	-VDC
31	White	Pulse
Note : Jump 5 & 35		
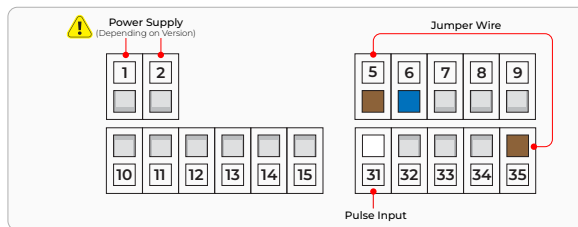
TIM Series : 4-20mA Output

450 Terminal	**Wire Color**	**Description**
5	Brown	+VDC
6	Blue	-VDC
33	Yellow	mA+
34	Grey	mA-

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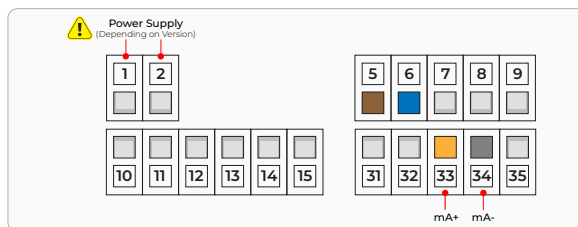
UF 1000 | 4000 | 5000 – Pulse Output

450 Terminal	Pin	Description
GPM/Pulse = K factor		
5	1	+VDC
31	2	Pulse
6	3	-VDC
Note : Jump 5 & 35		
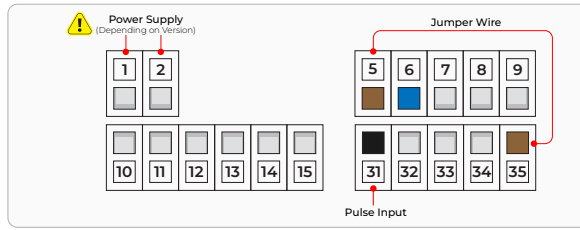
UF 1000 | 4000 | 5000 – 4-20mA Output

450 Terminal	Pin	Description
5	1	+VDC
33	2	+mA
6	3	-VDC
Note : Jump 6 & 35		
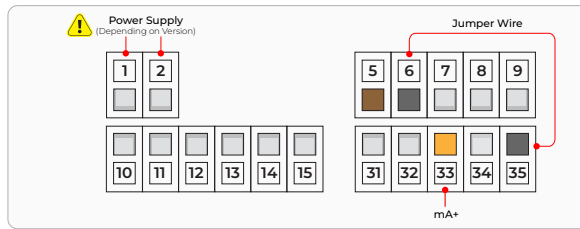
ProPulse (Flying Lead) – Pulse Output

450 Terminal	Wire Color	Description
GPM/Pulse = K factor		
5	Red	+VDC
6	Shield	-VDC
31	Blue	Pulse
Note : Jump 5 & 35		
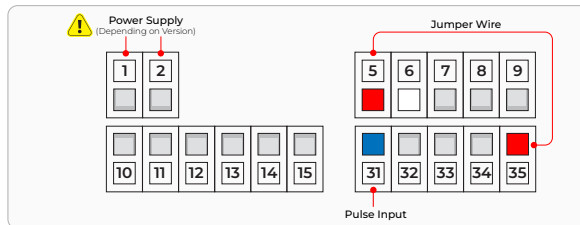
ProPulse®2 – Pulse Output

450 Terminal	Wire Color	Description
5	Brown	+VDC
6	Blue	-VDC
31	Black	Pulse
Note : Jump 5 & 35		

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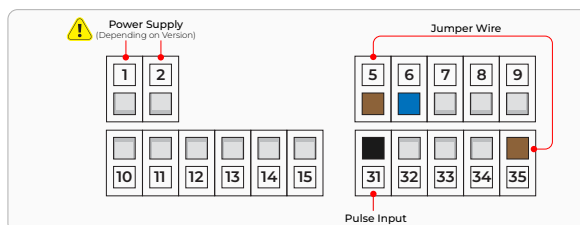
Programming K Factor

STEPS	DISPLAY	OPERATION
1 Main Display ▸ ☞ ESC/MENU ⏱ 3 SEC	0.0	**MAIN DISPLAY**
2 Relay 1 ▸ ☞ ⌄ X 5	rELAY1	**RELAY 1** Settings
3 Input ▸ ☞ ENTER/PAUSE	I.nPUt	**INPUT** Menu
4 K Factor ▸ ☞ ENTER/PAUSE	PULSEL	Press ⌄ or ⌃ ➡ Select **PULSEL** (K Factor)
5 K Factor Value ▸ ☞ ENTER/PAUSE ⏱ 2 SEC	00 0630	Enter **K FACTOR** Value — Press ⌄ or ⌃ to change digit. Press ENTER/PAUSE 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	SEt.?	Save Selection
7 K Factor ▸ ☞ ESC/MENU	PULSEL	PULSEL
8 Input ▸ ☞ ESC/MENU	I.nPUt	Input Menu
9 Main Display ▸	0.0	Main Display

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Programming Relays

STEPS	DISPLAY	OPERATION
1 Main Display — ESC MENU 3 SEC	`0.0`	**MAIN DISPLAY**
2 Relay 1 — ENTER PAUSE	`rELAY1`	**RELAY 1** Settings
3 Source — ENTER PAUSE	`Sour CE`	**SOURCE** Menu
4 FLo | bAt | tot — ENTER PAUSE	`FLo`	Press ∨ or ∧ → Select **FLo** (Flow)
5 Save — ENTER PAUSE	`SEt.P.`	Save Selection
6 Source — ∨	`Sour CE`	Source
7 Set Point 1 — ENTER PAUSE	`SEt P`	**SET POINT 1**
8 Set Point 1 Value — ENTER PAUSE 2 SEC	`000050`	Enter **SET POINT 1** Value — Press ∨ or ∧ to change digit. Press ENTER PAUSE to advance to next digit
9 Save — ENTER PAUSE	`SEt.P.`	Save Value
10 Set Point 1 — ∨	`SEt P`	**SET POINT 1**

STEPS	DISPLAY	OPERATION
11 Set Point 2 ▸ ENTER PAUSE	`SEt P2`	**SET POINT 2*** * Option available only when the MODE is set to In/Out
12 Set Point 2 Value ▸ ENTER PAUSE ⏱ 2 SEC	`0.00630`	Enter **SET POINT 2** Value — Press ∨ or ∧ to change digit — Press ENTER PAUSE to advance to next digit
13 Save ▸ ENTER PAUSE	`SEt.2`	Save Value
14 Set Point 2 ▸ ∨	`SEt P2`	Set Point 2
15 Hysterisis ▸ ENTER PAUSE	`HYSt`	**HYSTERISIS** Menu
16 Hysterisis Value ▸ ENTER PAUSE ⏱ 2 SEC	`0.00853`	Enter **HYSTERISIS** Value — Press ∨ or ∧ to change digit — Press ENTER PAUSE to advance to next digit
17 Save ▸ ENTER PAUSE	`SEt.2`	Save Value
18 Hysterisis ▸ ∨	`HYSt`	Hysterisis Menu
19 Mode ▸ ENTER PAUSE	`A.dE`	**MODE** Menu
20 On | Off | In | Out ▸ ENTER PAUSE	`O.t`	Press ∨ or ∧ ⟶ Select **On | OFF | In | Out**

STEPS	DISPLAY	OPERATION
21 Save ▸ [ENTER PAUSE]	SEt.?	Save Selection
22 Mode ▸ [ESC MENU]	nodE	Mode Menu
23 Relay 1 ▸ [ESC MENU]	rELAY1	Relay 1 Menu
24 Main Display ▸	0.0	Main Display

Programming Batching

STEPS	DISPLAY	OPERATION
1 Main Display — Press ESC/MENU 3 SEC	`0.0`	**MAIN DISPLAY**
2 Relay 1 — Press ENTER/PAUSE	`rELAY1`	**RELAY 1** Settings
3 Source — Press ENTER/PAUSE	`SourCE`	**SOURCE** Menu
4 FLo | bAt | tot — Press ENTER/PAUSE	`bAt`	Press ⌄ or ⌃ ➡ Select **bAt** (Batch)
5 Save — Press ENTER/PAUSE	`SEt.?`	Save Selection
6 Source — Press ⌄	`SourCE`	Source Menu
7 Set Point — Press ENTER/PAUSE	`SEt P`	**SET POINT**
8 Set Point Value — Press ENTER/PAUSE 2 SEC	`0.00050`	Enter **SET POINT** Value — Press ⌄ or ⌃ to change digit. Press ENTER/PAUSE to advance to next digit
9 Save — Press ENTER/PAUSE	`SEt.?`	Save Value
10 Set Point — Press ESC/MENU	`SEt P`	Set Point
11 Relay 1 — Press ESC/MENU	`rELAY1`	Relay 1 Menu
12 Main Display — Press Σ RESET	`0.0`	Main Display
13 Batching Mode — Press ENTER/PAUSE to start batching	`S0`	**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

Programming Output (For 4-20mA Output Models)

STEPS	DISPLAY	OPERATION
1 Main Display ▸ 👉 ESC MENU 🕐 3 SEC	`0.0`	**MAIN DISPLAY**
2 Relay 1 ▸ 👉 ⌄ X 9	`rELAY1`	Relay 1 Settings
3 Output ▸ 👉 ENTER PAUSE	`OutPut`	**OUTPUT** Menu
4 Output Mode ▸ 👉 ENTER PAUSE	`Othod`	**OUTPUT MODE**
5 4-20mA ▸ 👉 ENTER PAUSE	`4:-20`	Press ⌄ or ⌃ ➡ Select **4-20**
6 Save ▸ 👉 ENTER PAUSE	`SEt.?`	Save Selection
7 Output Mode ▸ 👉 ⌄	`Othod`	Select **OUTPUT MODE**
8 Source ▸ 👉 ENTER PAUSE	`SourCE`	**SOURCE** Menu
9 FLo | bAt | tot ▸ 👉 ENTER PAUSE	`FLo`	Press ⌄ or ⌃ ➡ Select **FLo** (Flow)
10 Save ▸ 👉 ENTER PAUSE	`SEt.?`	Save Selection

STEPS	DISPLAY	OPERATION
11 Source ▸	`SourCE`	Source Menu
12 4mA ▸	`out.Lo`	Setting **4mA (LOW VALUE)**
13 4mA Value ▸ ENTER/PAUSE 2 SEC	`0050`	Enter **4mA** Value — Press ⌄ or ⌃ to change digit. Press ENTER/PAUSE to advance to next digit
14 Save ▸	`SEt.?`	Save Value
15 4mA ▸	`out.Lo`	4mA (Low Value)
16 20mA ▸	`out.Hi`	Setting **20mA (HIGH VALUE)**
17 20mA Value ▸ ENTER/PAUSE 2 SEC	`0630`	Enter **20mA** Value — Press ⌄ or ⌃ to change digit. Press ENTER/PAUSE to advance to next digit
18 Save ▸	`SEt.?`	Save Value
19 20mA ▸ ESC/MENU	`out.Hi`	20mA (High value)
20 Output ▸ ESC/MENU	`outPut`	Output Menu
21 Main Display ▸	`0.0`	Main Display

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Resetting Batch

STEPS	DISPLAY	OPERATION
1 Main Display — ESC MENU ⏱ 3 SEC	`0.0`	**MAIN DISPLAY**
2 Relay 1 — ⌄ X 7	`rELAY1`	Relay 1 Settings
3 Batch Settings — ENTER PAUSE	`bAtCH`	**BATCH** Menu
4 Batch Resolution — ⌄ X 5	`b. PrEC`	**BATCH RESOLUTION**
5 Mode Clear — ENTER PAUSE	`A. CLr`	**MODE CLEAR**
6 oFF | on — ENTER PAUSE	`on`	Press ⌄ or ⌃ ➡ Select **on**
7 Save — ENTER PAUSE	`SEt.?`	Save Selection
8 Mode Clear — ESC MENU	`A. CLr`	Mode Clear
9 Batch Settings — ESC MENU	`bAtCH`	Batch Menu
10 Main Display — Σ RESET	`0.0`	Main Display

STEPS	DISPLAY	OPERATION
11 Batching Mode ▶ Σ/RESET · 3 SEC	`P 0.0`	**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 ▶ ENTER/PAUSE	`CLEAr.P`	Clear Batch
13 Main Display ▶	`0.0`	Main Display

Resetting Totalizer

STEPS	DISPLAY	OPERATION
1 Main Display ▶ ESC/MENU · 3 SEC	`0.0`	**MAIN DISPLAY**
2 Relay 1 ▶ ▼ X 8	`rELAY1`	Relay 1 Settings
3 Totalizer Menu ▶ ENTER/PAUSE	`totAL`	**TOTALIZER** Menu
4 Totalizer Resolution ▶ ▼ X 5	`PrEC`	**BATCH RESOLUTION**
5 Mode Clear ▶ ENTER/PAUSE	`CLr`	**MODE CLEAR**
6 oFF | on ▶ ENTER/PAUSE	`0.0`	Press ▼ or ▲ ➡ Select **on**

STEPS	DISPLAY	OPERATION
7 **Save** ▸ ENTER / PAUSE	SEt.P	Save Selection
8 **Mode Clear** ▸ ESC / MENU	A.CLr.	Mode Clear
9 **Totalizer Menu** ▸ ESC / MENU	totAL	Totalizer Menu
10 **Main Display** ▸ Σ / RESET X 2	0.0	Main Display
11 **Totalizer Mode** ▸ Σ / RESET 3 SEC	0.0	**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** ▸ ENTER / PAUSE	CLEAr.P	Clear Totalizer
13 **Main Display** ▸	0.0	Main Display

Setting Decimal Point

STEPS	DISPLAY	OPERATION
1 Main Display — ESC MENU 3 SEC	`0.0`	**MAIN DISPLAY**
2 Relay 1 — ∨ X 6	`rELAY1`	Relay 1 Settings
3 Flow Menu — ENTER PAUSE	`FLow`	**FLOW** Menu *
4 Flow Precision — ENTER PAUSE	`F.PrEC`	**FLOW PRECISION**
5 Decimal Point — ENTER PAUSE	`0.0`	**DECIMAL POINT**
	`0.000`	Press ∨ or ∧ to change Decimcal Point
6 Save — ENTER PAUSE	`SEt.?`	Save Selection
7 Flow Precision — ESC MENU	`F.PrEC`	Flow Precision
8 Flow Menu — ESC MENU	`FLow`	Flow Menu
9 Main Display	`0.000`	Main Display

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

LevelPro® — TVF-450 Series
Industrial Flow Batching Controller

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