

# Quick Start Manual



Read the user's manual carefully before starting to use the unit.  
Producer reserves the right to implement changes without prior notice.

# LevelPro® — ProAlert® Sentry 5000

## Audible & Visual Alarm + Display | Controller

### 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   4 x 20mm High   Red   Adjustable Brightness |         |
| Displayed Values                                                                                      | -999 ± 9999                                       |         |
| Stability                                                                                             | 50 ppm   °C                                       |         |
| Transmission Parameter                                                                                | 1200...115200 bit/s, 8N1 / 8N2                    |         |
| Protection Class                                                                                      | NEMA 4X   IP67                                    |         |
| Input Signal   Supply                                                                                 |                                                   |         |
| Standard                                                                                              | Current: 4-20mA (std.)   0-20mA   0-5V*   0-10V*  |         |
| Voltage                                                                                               | 85 - 260V AC/DC   16 - 35V AC, 19 - 50V DC*       |         |
| Output Signal   Supply                                                                                |                                                   |         |
| Standard                                                                                              | 4-20mA                                            |         |
| Voltage                                                                                               | 24VDC                                             |         |
| Performance                                                                                           |                                                   |         |
| Accuracy                                                                                              | 1% @ 25°C One Digit                               |         |
| Accuracy According to IEC 60770 - Limit Point Adjustment   Non-Linearity   Hysteresis   Repeatability |                                                   |         |
| Temperatures                                                                                          |                                                   |         |
| Operating Temperatures                                                                                | -40 - 158°F   -40 - 70°C                          |         |
| Materials   Wetted                                                                                    |                                                   |         |
| Housing                                                                                               | Polycarbonate                                     |         |
| Part Number                                                                                           | Input                                             | Display |
| PA5000                                                                                                | 4-20mA                                            | Single  |

\*Contact Factory for different options

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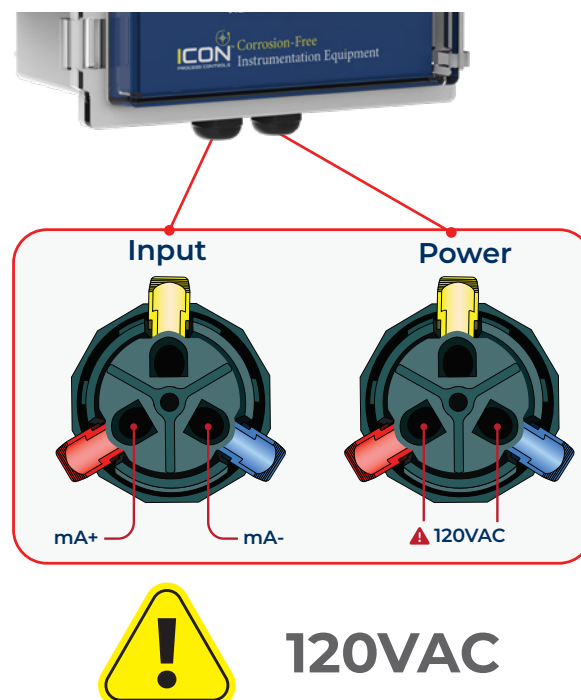
**ICON**™ Corrosion-Free  
PROCESS CONTROLS Instrumentation Equipment

LevelPro®

### Front Panel Description



### Wiring Diagram



### Function of Push Buttons



#### Symbol used in the manual : [ESC/MENU]

##### Functions:

- Enter to main menu (press and hold for at least 2 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]

##### Functions:

- Start to edit the parameter
- Enter into the sub-menu
- Confirmation of changes made in parameter being edited



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

##### Functions:

- Change of the present menu
- Modification of the parameter value
- Change of the display mode

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### Programming 4-20mA Input

| STEPS                                                                                                                                                                                                                                                                                                                                                                                | DISPLAY                                                                             | OPERATION                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 Press ESC/MENU Button</b><br>  3 SEC                                                                                                                                                                          |    | Press & Hold <b>ESC/MENU</b> Button   3 Sec<br>( <b>Relay 1</b> Appears on Display)                                                                                          |
| <b>2 Press DOWN Arrow</b><br>  2x                                                                                                                                                                                  |    | Press <b>DOWN</b> Arrow (2x)<br>( <b>Input</b> Appears on Display)                                                                                                           |
| <b>3 Press ENTER Button</b><br>                                                                                                                                                                                    |    | Press <b>ENTER</b> Button<br>( <b>Type</b> Appears on Display)                                                                                                               |
| <b>4 Press DOWN Arrow</b><br>  4x                                                                                                                                                                                  |    | Press <b>DOWN</b> Arrow (4x)<br>( <b>Lo C</b> Appears on Display   4mA Set Point)                                                                                            |
| <b>5 Press UP or DOWN Arrow</b><br>  +   |  | Press <b>ENTER</b> Button to set Lo C   4mA   Std = 0<br>Press <b>UP</b> or <b>DOWN</b> Arrows to Change Value<br>(Use the <b>ENTER</b> button to advance to the next digit) |
| <b>6 Press ENTER Button</b><br>  2 SEC +                                                                                    |  | When desired number appears Press & Hold <b>ENTER</b> for 2 Sec to lock in the set point. ( <b>SET?</b> appears on display)<br>Press <b>ENTER</b> to confirm                 |
| <b>7 Press DOWN Arrow</b><br>                                                                                                                                                                                  |  | Press <b>DOWN</b> Arrow<br>( <b>Hi C</b> will appear on Display   20mA Set Point)                                                                                            |
| <b>8 Press ENTER Button</b><br>  +       |  | Press <b>ENTER</b> Button to set Hi C   20mA*<br>Press <b>UP</b> or <b>DOWN</b> Arrows to Change Value<br>(Use the <b>ENTER</b> button to advance to the next digit)         |
| <b>9 Press ENTER Button</b><br>  2 SEC +                                                                                    |  | When desired number appears Press & Hold <b>ENTER</b> for 2 Sec to lock in the set point. ( <b>SET?</b> appears on display)<br>Press <b>ENTER</b> to confirm                 |
| <b>10 Press ESC/MENU Button</b><br>  2x                                                                                                                                                                        |  | Press <b>ESC/MENU</b> Button (2x)<br>(Home Screen   Current Level Reading appears on display)                                                                                |

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### Programming 4-20mA Output

| STEPS                                                                                                                                                                                                                                                                                                                                                                                | DISPLAY                                                                             | OPERATION                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>1 Press ESC/MENU Button</b><br>  3 SEC                                                                                                                                                                          |    | Press & Hold <b>ESC/MENU</b> Button   3 Sec<br>( <b>Relay 1</b> Appears on Display)                                                                                           |
| <b>2 Press DOWN Arrow</b><br>  3x                                                                                                                                                                                  |    | Press <b>DOWN</b> Arrow (3x)<br>( <b>Output</b> Appears on Display)                                                                                                           |
| <b>3 Press ENTER Button</b><br>                                                                                                                                                                                    |    | Press <b>ENTER</b> Button<br>( <b>Output Mode</b> Appears on Display)                                                                                                         |
| <b>4 Press DOWN Arrow</b><br>  1x                                                                                                                                                                                  |   | Press <b>DOWN</b> Arrow (1x)<br>( <b>Out L</b> Appears on Display   4mA Set Point)                                                                                            |
| <b>5 Press UP or DOWN Arrow</b><br>  +   |  | Press <b>ENTER</b> Button to set Out L   4mA   Std = 0<br>Press <b>UP</b> or <b>DOWN</b> Arrows to Change Value<br>(Use the <b>ENTER</b> button to advance to the next digit) |
| <b>6 Press ENTER Button</b><br>  2 SEC +                                                                                    |  | When desired number appears Press & Hold <b>ENTER</b> for 2 Sec to lock in the set point. ( <b>SET?</b> appears on display)<br>Press <b>ENTER</b> to confirm                  |
| <b>7 Press DOWN Arrow</b><br>  1x                                                                                                                                                                              |  | Press <b>DOWN</b> Arrow (1x)<br>( <b>Out H</b> will appear on Display   20mA Set Point)                                                                                       |
| <b>8 Press ENTER Button</b><br>  +       |  | Press <b>ENTER</b> Button to set Out H   20mA*<br>Press <b>UP</b> or <b>DOWN</b> Arrows to Change Value<br>(Use the <b>ENTER</b> button to advance to the next digit)         |
| <b>9 Press ENTER Button</b><br>  2 SEC +                                                                                    |  | When desired number appears Press & Hold <b>ENTER</b> for 2 Sec to lock in the set point. ( <b>SET?</b> appears on display)<br>Press <b>ENTER</b> to confirm                  |
| <b>10 Press ESC/MENU Button</b><br>  2x                                                                                                                                                                        |  | <b>Press</b> ESC/MENU Button (2x)<br>(Home Screen   Current Level Reading appears on display)                                                                                 |



Calculating 4-20mA Input

| SENSOR TYPE | 20mA Set Point                            |
|-------------|-------------------------------------------|
| Submersible | Range of sensor / Specific Gravity = 20mA |
| Ultrasonic  | Tank Height                               |
| Radar       | Tank Height                               |

Programming Relays

| STEPS                                   | DISPLAY | OPERATION                                                                                                                                                                      |
|-----------------------------------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 Press <b>ESC/MENU</b> Button          |         | Press & hold <b>ESC/MENU</b> button   3 Sec<br>(Relay 1 appears on display)                                                                                                    |
| 2 Press <b>ENTER</b> Button             |         | Press <b>ENTER</b> button<br>(SETP appears on display)                                                                                                                         |
| 3 Press <b>ENTER</b> Button             |         | Press <b>ENTER</b> Button<br>(Relay Set-Point Number appears on display with first digit flashing)                                                                             |
| 4 Press <b>UP</b> or <b>DOWN</b> Arrows |         | Press <b>UP</b> or <b>DOWN</b> arrows to increase or decrease number to desired setpoint<br>(Use the ENTER button to advance to the next digit)                                |
| 5 Press <b>ENTER</b> Button             |         | When desired number appears Press & Hold <b>ENTER</b> for 2 Sec to lock in the set point. (SET? appears on display)<br>Press <b>ENTER</b> to confirm (SETP appears on display) |
| 6 Press <b>DOWN</b> Arrow               |         | Press <b>DOWN</b> arrow to select relay parameters (ON-OFF, HYSTERISIS, Mode, Time, Unit, Alarm)<br>Repeat steps 3-5 for each parameter                                        |
| 7 Press <b>ENTER</b> Button             |         | Once Relay Parameters are Set, Press & Hold <b>ENTER</b> for 2 Sec to lock in the set point. (SET? appears on display)<br>Press <b>ENTER</b> to confirm                        |
| 8 Press <b>ESC/MENU</b> Button          |         | Press <b>ESC/MENU</b> Button (2x)<br>(Home Screen   Current Level Reading appears on display)                                                                                  |