Z-TRAUQ INC.

User's Manual

Series ZDB

Large format industrial meters for a wide range of process signals:
- mA
- Vdc
- Load Cell
- Temperature

Different formats available with digit heights of 60 and 100 mm, 4 and 6 digits, in red or green color.
Sturdy metal housing, with full IP65 protection, designed for panel, wall or suspended mounting.
Versatile and configurable: provides excitation voltage to power up the transducer, segment linearization
- fast access to alarm set points
- *on power up* function
- *measuring* function
- 5 configurable brightness levels

Accepts up to 3 outputs and control options:
- relays
- analog retransmission
- Modbus RTU
- transistor outputs
- RS-485 ASCII

Configuration from frontal or remote keypad.

1. Large format industrial meters for process signals

Large format meters for long distance reading in industrial applications. Different formats available with 4 and 6 digits, of 60 mm or 100 mm tall. Front keypad to access the configuration menu, and optional remote keypad.
Models to measure process signals in mA and Vdc provide excitation voltage configurable from +5 Vdc to +20 Vdc (max. 35 mA) to power up transducers. Scalable reading with selectable decimal point position.
Output and control optons with 1, 2 and 3 relays, transistor outputs, controls for SSR relays, isolated analog outputs, communications in Modbus RTU, RS-485 ASCII and RS-232.
Sturdy metal housing with full IP65 protection. Internal connectons by plug-in screw clamp terminals, and output through cable glands. Housing prepared for panel, wall and suspended mounting.

Configurable **Fast access** to selected functions with key 'UP' (*1.12.11)*
On power up applications for system protection on 'cold' start-up and/or activation of automatic tare *(1.12.12)*.
Up to **20 segments** for signal linearization (*1.12.8)*
Field correction for fast and easy 'in the field' correction of offsets and signal drifts (*1.12.3)*
Alarms with 1 or 2 set points, independent activation and deactivation delays, hysteresis, manual unlocking, *(1.12.4)*
Tare function for weight applications *(1.12.14)*
Peak & Hold for test break applicatons (*1.12.9)*
Multiple display filters, memory of maximum and minimum reading, password protecton, 5 brightness levels.

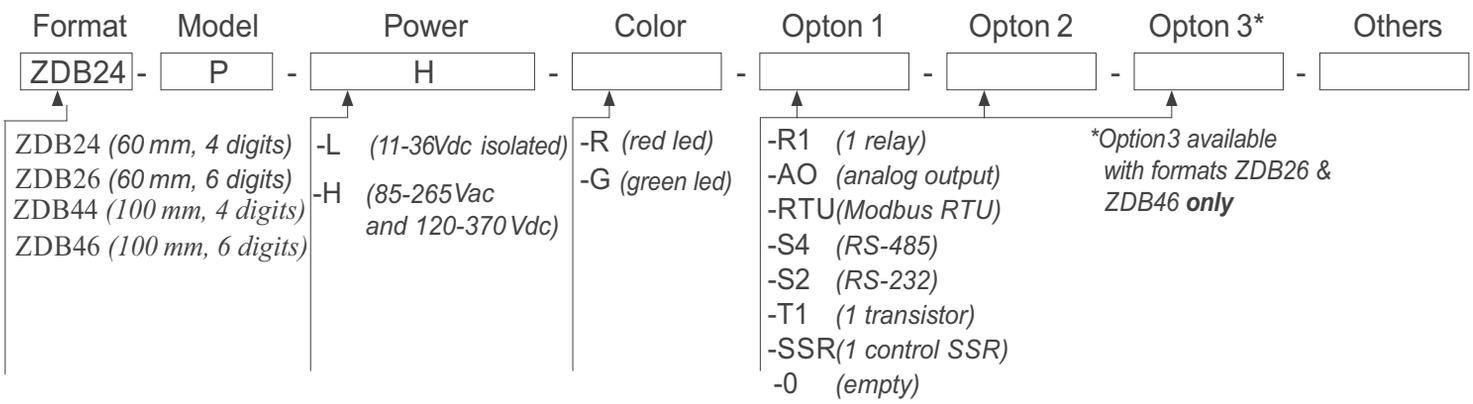
1.1 How to use this manual

If this is the first time you are configuring a Series ZDB large display, follow these steps to configure the instrument:

Read all the sections in order to have a full and clear view of the instrument's characteristics.
Installation precautions can be found in sect. 1.17

1. Identify the instrument format (1.4)
2. Power and signal connections
- open the instrument (1.5)
- connect the power (1.7)
- connect the signal and select jumper mA/Vdc (1.8)
- close the instrument (1.5)
3. Configure the instrument (1.12)
 - select the signal range, the decimal point position and scale the reading (1.12.2)
4. Advanced configuration (optional)
- configure the instrument alarms (1.12.4)
- configure the display digits (1.12.7)
- configure the fast access (1.12.11)
- configure the excitation voltage (1.12.15)
- configure other functions: segment linearization (1.12.8) on power up (1.12.12) tare (1.12.14) password (1.12.16)
5. If the instrument includes analog output (AO) or serial communications (RTU, S4, S2)
   - to include an option to an instrument (1.6)
   - to configure an installed option, access the option configuration menu (1.12.20)
   - see sect. 2 for information regarding the output and control options available.
6. Install the instrument:
   - mount on panel, wall or suspended (1.16)
   - adjust the brightness level according to your environmental needs (1.12.19)

1.2 How to order



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