Weighing Controller Instruction Manual

Thanks a lot for selecting the product!

Before operating this instrument, please carefully read this manual and fully understand its contents. If any problems, please contact our sales or distributors whom you buy from. This manual is subject to change without prior notice.

Application

The instrument provides isolated load cell power (regularly one 12V/40mA), connect with load cell directly, up to 6 outputs control for groups of batching or single. Data/PV/peak value/holding function for choice. RS485 communication interface provides remote link with computer/PLC. Besides, you can Start/Pause/Accumulate/Clear tare weight/average/clear zero etc. with external control.

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Clear zero value setting. When no weight added, the display is 0 if the inner value changes within the range of PF2. The data remains if it’s larger than PF2.

Filter constant, range: 0-3. 0 is the fastest, 1-3, much slow, but stable measurement

Weighing rate setting for large-tonnage weighing. Factory setting: 1.000

Calibration password. Factory setting is 015. Set it to 020 when do calibration.

Zero point adjustment for current/volt output, 4mA/0.1V adjustable. Available when have analog output. Factory setting, do not make modification.

Full point adjustment for current/volt output, 20mA/10V adjustable. Available when have analog output. Factory setting, do not make modification.

A: Calibration for large-tonnage scale loadcell:

A. Set USP= the total weight of all input loadcells (eg. each loadcell is 1000KG, 3 loadcells in total, the total weight is 3000kg. Then set USP = 3000).
B. Record the displaying value (PV1) when no weight on the loadcells (eg. 100.5kg).
C. Add the standard weight (the weight should be larger than 20% of the total loadcell weight, eg. 500kg).
D. Calculation: The actual weight added (eg. 500kg) / (PV2-PV1)
   eg. 500 / (630-100.5) = 0.9442.
E. Calculation: USP * (The actual weight added / (PV2-PV1))
   eg. USP * (500/529.5) = 2832.86,
   Then set USP = 2832.86 again.
F. The adjustment is finished.

B: No need calibration with standard weight, just set new USP only

(Factory USP unit is G, your Loadcell scale unit should be KG. The new USP unit is G.)

1. New USP (g) = Factory USP (g) * Load scale (KG) / 5
   If you want to change the unit to KG, the New USP should be
   New USP (Kg) = Factory USP (g) * Load scale (KG) / 5000
   If you want to change the unit to T, the new USP should be
   New USP (T) = Factory USP (g) * Load scale (KG) / 5000,000

Shielding parameter menu setting

Refer to SEL details

If SEL=X1XX
that means the user can’t do on-site weight adjustment by pressing UP/DOWN key.

If SEL=X0XX
that means the user can do on-site weight adjustment by pressing UP/DOWN key.

Note:
*** X means the original data. Do not make modification.
*** Just make modification to data 1/0
*** Factory setting is X0XX. After on-site adjustment, make sure SEL=X1XX. This is to avoid incorrect display by user’s inappropriate key-pressing operation.