

# ID510

# Weighing Controller



### Applications:

- \* Standard weighing
- \* Field-bus communication
- \* Target control
- \* Checking weighing
- \* Filling
- \* Bagging
- \* Batching

**ID510** is an industry weighing process controller, high accuracy, kinds of field-bus communication, typical for weighing, batching, filling, bagging and chemical dangerous area weighing.

### Features:

- \* 128x64 dot matrix graph display
- \* 150,000,6000e CMC approval
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- \* 200Hz A/D sample speed, 200Hz target compare speed
- \* 10-step filter, high Anti-vibration
- \* Standard with two serial ports (RS232 and RS232/485), Kinds of field-bus options to connect to PLC or DCS
- \* No-Testing weight Calibration is available
- \* Exd Class: Ex d ib[ia II C Ga] IIB T6 Gb/DIP A21 TA, T6

### Options:

- \* 8 Inputs /12 Outputs (OC and Relay)
- \* PROFIBUS DP
- \* 4-20mA Analog Output(16-bit DAC)
- \* 100M LAN(TCP,UDP,MODBUS-TCP)

Specifications and Parameters	
Accuracy	
Accuracy Class	III
CMC Approval	150,000d, 6000e(Approved)
Approval	150,000 Display Division, CMC 6000e
Display	128x64 green OLED dot matrix graph display
Update Speed	60ms
Status Display	Tare, Net, Motion, Zero, Unit, PLC
Key	20 keys(F key, Tare/Clear, Zero, Print, 10 digit keys)
Power On/Off	None
Keypad Lock	Can be locked via local input or remote communication (MODBUS-RTU, MODBUS-TCP, PROFIBUS-DP)
<b>ADC</b>	
Type	24-bit
Speed	200 Hz
Resolution	0.06uV/d
Resolution Approved	1uV/e(legal for trade)
Input	0.1mV to 19Mv
Accuracy	150,000d
<b>Scale Basic Functionality</b>	
Calibration	2-point with testing weight or no testing(CalFree)
Filter	5-step
Scale Process	Tare, Zero, Auto Zero, Motion, Auto Tare, Auto Clear, Auto Print
Inputs	Option 8 Inputs, Can be assigned remote inputs for remote host(PLC or DCS)
Outputs	Option 12 Outputs, Can be assigned remote outputs for remote host(PLC or DCS)
Others	Display gross weight, net weight, rate
<b>Linearity and Stability</b>	
In-linearity & TC	≤0.0015% FS; ≤5ppm/°C
Exciting Voltage	5V DC, max 150mA
Load Cell Number	Max 10 x 350Ω or 24 x 1100Ω
Connect Type	4-wired or 6-wired, Cable:274mR/m <sup>2</sup>
<b>Communication I/F</b>	
Serial Port	2 ports: COM1-RS232, COM2-RS232/485
Continuous Output	10ms ~ 20ms (100~50 Hz)
MODBUS-RTU	Support, Integer & Floating data format
LAN	100M, TCP, UDP, MODBUS-TCP
Analog Output	two channel 4-20mA output, 16-bit DAC
PROFIBUS-DP	Integer and floating data output, 100Hz weighing update
<b>Application PAC</b>	
Basic Weighing	2-speed target control/Filling/dump/Over/Under/Over
Batching PAC	Up to 8 materials, Sequence Fill / Random Fill
Checking Weighing PAC	Eye input checking & Weighing checking, Up to 8 range classify output
Bagging PAC	Weigh-Hopper Bagging / No-Weigh-Hopper Bagging In-continuous-weighing totalization Bagging
Filling PAC	No-Gun-Control Filling / Gun-Control Filling
<b>Working Condition</b>	
Temperature	-10°C~40°C, 95% RH
Power Supply	86~264VAC, 12W
IP Protection	Panel-IP65, Harsh-IP69K, Exd-IP65

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**ID510 Industrial Weighing Process Controller**  
 High Accuracy, High Anti-vibration, Extensive Applications