GMC-X3

Rail-Mount Loss-in-Weight Controller

GMC-X3 is a loss-in-weight scale control module for high precision continuous dosing applications, capable of reliable, accurate and stable dosing of liquid, powder, granular and flake dry bulk materials, reducing material waste and improving mixture consistency. It is mainly used in chemical, plastic, rare earth smelting and other industries.

HARDWARE HIGHLIGHT

CE

● Stainless steel case, IP65 protection;

Standard

● 6-wire load cell interface;
● 1 analog output interface;
● 1 RS485, 1 RS232 interface with isolation;
● 4 inputs and 4 outputs + 4 self-defined transistor input or output interfaces;

Options

● Modbus TCP /Profinet;
● 1 Analog input (current/voltage optional) + 1 analog output interface;

Modbus TCP/IP   PROFINET®

SOFTWARE HIGHLIGHT

● New generation flow control algorithm, more stable;
● Support analog calibration, automatic/manual calibration of flow rate;
● Automatic locking and unlocking function for flow interference;
● Support two devices to access the instrument parameters function simultaneously (ModbusTCP);
● **Support multiple working modes:**
1. Flow calibration mode;
2. Dosing mode:
2.1. Flow rate presetting and flow rate giving mode;
2.2. PID control mode, segment control mode;
● Threshold anti-interference function, which makes the working process of the instrument more stable;
● Multi-material function, support up to 10 sets of material parameters, convenient to switch between different material parameters.

Standard Specification

General Specifications	Model	GMC-X3
	Power Supply	DC 24V（18~36VDC）
	Approved Environment	-10℃~40℃
	Maximum humidity	90% R.H without dew
	Testing standards	Class III 6000 e, 1 μ V/e
	Power Dissipation	15W
Measurement Parameters	Load cell excitation voltage	5V 200mA(MAX)
	Load cell connection	1load cell interface , 6-wire with compensation , up to 8 load
		cells with 350Ω, support 1mV/V、2mV/V、3mV/V sensitivity.
	Analog Input Range	0~15mV
	Input sensitivity	0.1μV/d
	Non-Linear	0.01%F.S
	A/D Conversion	480 times/sec
	Display Accuracy	1/1,000,000
Communication Interface	Standard	● 1 analog output interface ● 1 RS485, 1 RS232 interface with isolation ● 4 inputs and 4 outputs + 4 self-defined transistor input or output interfaces;
	Optional	● Modbus TCP /Profinet; ● 1 Analog input (current/voltage optional) + 1 analog output interface;

Application Diagram

Continuous Dosing Application

Multi-heads Continuous Dosing

Analog feedback control

134 mm

122 mm

62 mm

127.5 mm