

RTM-X4 Process Controller



- 6.2 inches TFT color liquid crystal touch panel display with excellent visibility color and wide viewing angle is adopted.
 - Waveform display of weighing status is available.
 - 100 kinds of brands and recipes can be stored in the internal memory.
 - High speed A/D conversion at 1000 times/second.
 - RS-485 interface and the serial interface are equipped as a standard.
 - Wide range of power supply voltage (AC100 V ~ AC240 V) (DC 24 V)
- Protection grade : IP65
- CE Mark applied.

The RTM-X4 Process Controller is a multiple use device for precise weighing applications for industrial environment.

Bridge power supply	DC12 V \pm 0.3 V within 140 mA (Changeable to 3 VDC or 6 VDC) with remote sensing function
Input sensitivity	0.3 μ V/d or more (d = minimum scale)
Input range	-3.1 mV/V ~ 3.1 mV/V
Zero adjustment range	-2.5 mV/V ~ 2.5 mV/V
Non-linearity	0.01 %F.S.
Temperature coefficient	Zero point \pm 0.1 μ V/ $^{\circ}$ C, Sensitivity \pm 0.000 8 %F.S./ $^{\circ}$ C (When the calibration is set at 0.3 μ V/d or more for input sensitivity.)
Noise in input signal	\pm 0.2 μ VP-P or less (At the default setting for analog filter, digital filter, stabilization filter and A/D sampling.)
Analog filter	Approx. 4 Hz (Changeable to 2 Hz, 6 Hz, 8 Hz, 10 Hz or 100 Hz)
A/D sampling speed	200 times/s (Changeable to 1 000 times/s, 100 times/s, 50 times/s, 20 times/s or 10 times/s.)
A/D internal resolution	24 bit
Display unit	Wide viewing angle 6.2 inches TFT color liquid crystal display No. of dots : 640 x 240 dots, Dot pitch : 0.077 mm x 0.231 mm
Back light	Brightness : Approx. 240 cd/m ² (typ.)
Durability	Approx.40 000 hour (typ.) at 25 $^{\circ}$ C until the surface brightness reaches 50 % of initial.

Specifications for digital

Display range	- 999 999 ~ 999 999
Status display	GROSS / NET, TARE, PRE.TARE, STABLE, HOLD, Z-ERR, RUN, CZ, F.FLOW/S1, M.FLOW/S2, D.FLOW/ S3, OVER/S4, OK, UNDER, FULL, Z-BAND, FINISH, FLOW / DISCH., S-COMP / SEQ. / 4-COMP / MEAS. / OUT / MIX
Display of setting	value Final, Preliminary-1, Preliminary-2, Over, Under, Free fall
Display of brand	Code No.: 0 ~ 99, Brand name: Up to 15 characters
Display times	4 times/s (Changeable to 20 times/s)
Display of decimal point	Changeable to no display, 101, 102, 103, 104.
Accumulation display	Accumulation value: 0 ~ 9 999 999 999, Accumulation times: 0 ~ 999 999
Setting method of operation	Setting by the operation in Analog resistive touch panel, Also, setting can be made by the communication through RS-485 interface.

Various function

Zero tracking	Stabilize the zero shift in a constant condition.
Digital filter	Stabilize the data by operating process in CPU.
Stabilization filter	Stabilize by strengthened the digital filter only when the change width of the load is constant.
Calibration LOCK switch	Lock the calibration function by this switch.
Digital linearize	Compensate the non-linearity by 3 points at the maximum.
Accumulating function	Accumulate the loading data, and memorize the times and total value.
Preset tare	Execute the tare weight cancellation by the setting value input in digital.
Operating temp./humidity range	Temperature 0 °C ~ 40 °C, Humidity 85 % or less (Non condensing)
Power supply voltage	100 VAC ~ AC240 VAC (Permitted variable range: 85 VAC ~ 264 VAC) 50/60 Hz
Power consumption	Approx. 20 VA (without any options, at 100 VAC) Approx. 30 VA or less (with options, at 100 VAC)
Outline dimensions(WxHxD)	192 mm x 96 mm x 132 mm (excludes protruding parts)
Weight	Approx. 1.6 kg (without options)
Protection code	IP65 (Only for the front panel when the attached panel mounting gasket is installed.)

