4-20 mA Control/Alarm/Indicator

Model : CT-2012

ISO-9001, CE, IEC1010

Monitor / Controller/Alarm

PV
SV
Control   Alarm
SET
CT-2012

4 -20 mA
Transmitters

Monitor / Controller/Alarm
PV
SV
Control   Alarm
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LUTRON ELECTRONIC

The Art of Measurement

4-20 mA Controller/Alarm/Indicator
Model : CT-2012

FEATURES

* Input : 4-20 mA DC, linear.
* User can default the desired display value between -1999 to 9999 (decimal point can be selected to DP1, DP2, DP3) and all the preset data will be saved into the memory circuit permanently.
* According the 4 to 20 mA input signal, user can preset the desire display value between -1999 to 9999 (decimal point can select to DP1, DP2, DP3). Until set the display value, all the data will save into the memory circuit permanently
* When CT-2012 cooperate LUTRON's 4 to 20 mA transmitters (or any other transmitters if it build 4 to 20 mA output signal), whole system will become the high performance Controller/Alarm/Indicator for following measuring functions : Humidity, Light, pH, Dissolved Oxygen, Conductivity, Vibration, Pressure, Sound, Temperature, RPM, Hz, Load cell (Weight, Force), Potential (Angle, Level). ACV, ACA, DCV, DCA, WATT....
* Easy to adjust the function factors by push button on the front panel.
* Control output : 2 points (COM, NO).
* Alarm output : 2 points (COM, NO).
* Control Relay will make action when the reading value reach to control value.
* Hysteresis value setting for control and alarm function.
* Large red LED display, high brightness and easy to read.
* Microprocessor circuit ensures high accuracy and provides special functions and features.
* DC 24V power supply output.
* RS232/USB computer interface.
* Power : 90 ACV - 264 ACV, 50/60 Hz.
* Standard 96 X 48 mm DIN case.
* Optional data acquisition software.

GENERAL SPECIFICATIONS

Display	* 4 digits red LED, 14 mm (0.55 inch) digit height
	* 4 indicators : PV (process value) indicator SV (set value) indicator Control out indicator Alarm out indicator
	* According the 4-20 mA input signal, user can preset the desire display value between -1999 to 9999 (decimal point can select to DP1, DP2, DP3). Until set the display value, all the data will save into the memory circuit permanently
Input Signal	Linear, 4 to 20 mA

Accuracy @ 23 ± 5 ℃	Span	± (0.15% + 2d) F.S.
	Zero	± (0.1% + 2d) F.S.
	*F.S. : full scale	

Circuit	Custom chip of microprocessor LSI circuit.
Sampling Time	Approx. 1 second.
External Power Supply	DC 24 V, 50 mA max.
Data Output	RS 232 PC serial interface.

Relay Output	Number	2 relays
	Function	*Relay 1 :* High/Low control relay. *Relay 2 :* High/Low alarm relay.
	Max load	0.5 ACA/250 ACV 0.5 DCA/24 DCV
	⚠	***Do not apply the relay contact load current > 0.5 A, other wise the relay may be damaged permanently without warranty.***

Main Internal Function Selection	* Decimal point adjustment : DP1, DP2, DP3 * Low limit of range adjustment 4 mA = X X X X, min. value is -1999 * High limit of range adjustment 20 mA = X X X X, max. value is 9999 * Alarm function adjustment : High Alarm or Low alarm. * Control function adjustment High control or Low control. * Deviation of Alarm * Deviation of Control * Filter value of display reading * Offset adjustment. * Gain adjustment. * RS232 output unit code setting
	Default of internal function : Without advice previously, the function of CT-2012 will preset : * *4 mA = 0, 20 mA = 9999.* * *High control mode.* * *High alarm mode.* * *RS232 output unit code = 0 (no unit).*
Front Panel Function Selection	* Control set-point value adjustment. * Measuring value (Process value) offset. Use to offset the PV indication from the actual PV. * Alarm set-point value adjustment.
Operating Temperature	0 to 50 ℃.
Operating Humidity	Less than 80% R.H.
Power Supply	90 to 260 ACV, 50/60 Hz.
Power Consumption	Approx. 3.5 VA/AC 110V. Approx. 4.9 VA/AC 220V.
Weight	384 g/ 0.84 LB.
Dimension	DIN size : 96 x 48 mm. Panel cut size : 92 mm x 46 mm. Depth : 110 mm.
Accessories Included	Instruction manual..........................1 PC Case holder with screw.................... 2 PCs
Optional Accessories	* Data Acquisition software, SW-U801-WIN. * RS232 cable, UPCB-02. * USB cable, USB-01.

* Appearance and specifications listed in this brochure are subject to change without notice.