

# 4-20 mA Control/Alarm/Indicator

Model : CT-2012

ISO-9001, CE, IEC1010



4-20 mA  
Transmitters



勝特力材料 886-3-5753170  
勝特力电子(上海) 86-21-34970699  
勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)



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 12V 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               | <ul style="list-style-type: none"> <li>* 4 digits red LED, 14 mm ( 0.55 inch ) digit height</li> <li>* 4 indicators :<br/>PV ( process value ) indicator<br/>SV ( set value ) indicator<br/>Control out indicator<br/>Alarm out indicator</li> <li>* 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</li> </ul> |
| Input Signal          | Linear, 4 to 20 mA  |
| Circuit               | Custom chip of microprocessor LSI circuit.  |
| Sampling Time         | Approx. 1 second.   |
| External Power Supply | DC 12 V, 50 mA max.   |
| Data Output           | RS 232 PC serial interface.   |

|                                  |          |   |
|----------------------------------|----------|---|
| Relay Output                     | Number   | 2 relays  |
|                                  | Function | <i>Relay 1 :</i><br>High/Low control relay.<br><i>Relay 2 :</i><br>High/Low alarm relay.  |
|                                  | Max load | 0.5 ACA/250 ACV<br>0.5 DCA/24 DCV<br><br><i>* Do not apply the relay contact load current &gt; 0.5 A, other wise the relay may be damaged permanently without warranty.</i>  |
| Main Internal Function Selection |          | <ul style="list-style-type: none"> <li>* Decimal point adjustment : DP1, DP2, DP3</li> <li>* Low limit of range adjustment<br/>0 mA = X X X X, min. value is -1999</li> <li>* High limit of range adjustment<br/>20 mA = X X X X, max. value is 9999</li> <li>* Alarm function adjustment : High Alarm or Low alarm.</li> <li>* Control function adjustment<br/>High control or Low control.</li> <li>* Deviation of Alarm</li> <li>* Deviation of Control</li> <li>* Filter value of display reading</li> <li>* Offset adjustment.</li> <li>* Gain adjustment.</li> </ul> Default of internal function :<br>Without advice previously, the function of CT-2012 will preset : <ul style="list-style-type: none"> <li>* 4 mA = 0, 20 mA = 9999.</li> <li>* High control mode.</li> <li>* High alarm mode.</li> </ul> |
| Front Panel Function Selection   |          | <ul style="list-style-type: none"> <li>* Control set-point value adjustment.</li> <li>* Measuring value ( Process value ) offset. Use to offset the PV indication from the actual PV.</li> <li>* Alarm set-point value adjustment.</li> </ul>   |
| Operating Temperature            |          | 0 to 50 °C.   |
| Operating Humidity               |          | Less than 80% R.H.  |
| Power Supply                     |          | 90 to 260 ACV, 50/60 Hz.  |
| Power Consumption                |          | Approx. 4.7 VA/AC 110V.<br>Approx. 5.3 VA/AC 220V.  |
| Weight                           |          | 384 g/ 0.84 LB.   |
| Dimension                        |          | DIN size : 96 x 48 mm.<br>Panel cut size : 92 mm x 46 mm.<br>Depth : 110 mm.  |
| Accessories Included             |          | Instruction manual..... 1 PC<br>Case holder with screw..... 2 PCs   |
| Optional Accessories             |          | <ul style="list-style-type: none"> <li>* Data Acquisition software, SW-U801-WIN.</li> <li>* RS232 cable, UPCB-02.</li> <li>* USB cable, USB-01.</li> </ul>  |

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