ASHE CONTROLS PVT LTD
an ISO 9001:2015 certified company

CY-90/CY-92

CY-Series Dual Channel Indicators & Controllers



Overview

The ASHE CY Series are fully configurable micro-controller based dual-channel Digital process Indicators with control relay outputs, retransmission and data communication, offered in a highly compact, rugged and reliable panel-mount execution.

The Indicators accept either 4 to 20 mA DC or RTD Pt-100 (three-wire) input signals and are available in standard ¼ DIN dimensions in panel-mount execution and operate on universal AC power supply. The instrument may be configured for full functionality through the tactile keys on the front panel, with which the operator can set the parameters and configure the instrument as desired. Dual four-digit LED digital displays are provided on the front panel to indicate the process values of each channel. The display can indicate any scale range between –999 to +9999 units.

The instrument has four Relays for control action, two for each channel, the set-points of which may be set from the front keyboard. Options include analog retransmission signals and RS485 Modbus RTU communication, flame-proof executions, etc.

The ASHE CY Series Indicators offer a high degree of reliability owing to their inherent accuracy in process measurement and control, besides other characteristics like total immunity to shocks, dust, ambient temperatures, humidity and corrosive atmospheres. Further, the instruments are manufactured using selected high-grade components which guarantee their functional reliability and long operational life.

This product is backed by a full two-year warranty, covering all manufacturing defects and workmanship issues under normal operating conditions.

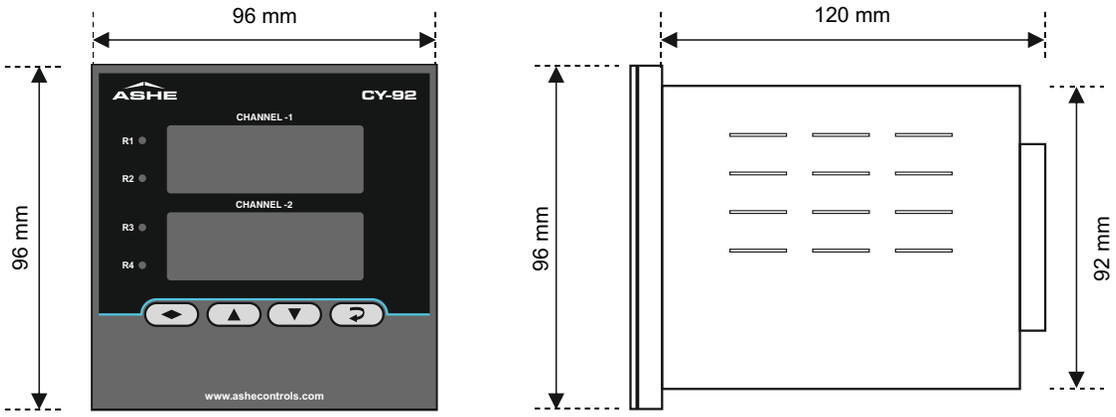
Specifications

Model	ASHE CY-90 ASHE CY-92.
Type	Dual-Channel Process Indication with Control action, Retransmission and Data Communication.
Input 1	RTD Pt-100 (3-wire) -OR- 4 to 20 mA DC
Input 2	RTD Pt-100 (3-wire) -OR- 4 to 20 mA DC
Indication	Dual Four-digit seven-segment 0.4” red LED displays.
Scale Range	-999 to +9999.
Calibration	Configurable from Front Keypad
Retransmission	Two analog outputs : 4 to 20 mA DC for each Input (optional).
Load Capacity	600 Ohms (each).
Communication	RS485 on Modbus RTU protocol (optional).
Response Time	< 100 mSec.
Control Outputs	Four Relays - Two change-over contacts (programmable) for each Input.
Contact Rating	10 Ampere @ 230 V AC (resistive loads).
Accuracy	> ± 0.1% (for 4-20 mA DC Inputs) ± 0.2% (for RTD Pt-100 Inputs)
Weight	Approximately 500g
Power Supply	90 to 270 V AC, 50/60 Hz.
Dimensions	96 x 96 x 120 mm (H x W x D).
Enclosure	Industrial grade ABS
Operating Temp.	0 to 55^{0}C

Features

- Microcontroller based high speed precision design
- Dual channel Inputs, Display and Control, Retransmission and Data Communication
- Standard analog 4 to 20 mA DC Input or RTD Pt-100 Sensor input.
- Low Input impedance (analog) – negligible load on loop
- High accuracy and linearity to input signals
- Dual 4-digit seven-segment LED displays
- Four Relay change-over contacts (two per channel)
- Very low power consumption and heat dissipation
- Fully configurable
- Analog Retransmission option for each input
- External transmitter powering option for each input
- Polarity Auto-sensing
- RS485 on Modbus RTU communication (optional)
- Selectable Decimal-point
- Universal AC Power Supply
- Rugged, industrial grade ABS enclosure
- High Noise immunity
- Panel / Field / Hazardous-area installation in IP66 execution
- Two-year Performance Warranty
- Proven track record of successful site installations

Dimensional Diagram



FRONT VIEW SIDE VIEW

How To Order

	DIGITAL DUAL CHANNEL INDICATORS & CONTROLLERS	**CY-9-**					
	Configuration and add-on options						
1	**CONTROL RELAYS**						
▸	No Relay (Simple Indicator)		0				
▸	Two Relays		2				
2	**POWER SUPPLY**						
▸	AC Voltage 90 to 270 VAC, 50/60 Hz			A			
▸	DC Voltage 20 to 70 VDC			D			
3	**INPUT SIGNALS**						
▸	DC Current (4 to 20 mA DC)				L		
▸	RTD Pt-100 (three-wire)				R		
4	**EXECUTION**						
▸	Panel mounting					W	
5	**RETRANSMISSION**						
▸	Retransmission Required						M
▸	Retransmission Not Required						N
6	**AUX 24 VDC OUTPUT**						
▸	AUX 24 VDC Required						Q
▸	AUX 24 VDC Not Required						N

Our Other Products


FLOW TOTALIZER


SIGNAL ISOLATORS & TRANSDUCERS


TEMPERATURE SCANNER


FLAMEPROOF INSTRUMENTS


STATIC POWER SWITCHES

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