



DIGITAL INDICATORS & CONTROLLERS

CY-SERIES



OVERVIEW

The ASHE Series CY is a range of fully configurable micro-controller based universal Digital process Indicators & Controllers offered in a highly compact, rugged and reliable execution. The instrument has three keys on the front panel, with which the operator can set the parameters and configure the instrument as desired. A four-digit LED display is offered on the front panel. The display can indicate any scale range between -999 to +9999 units.

The Indicators accept analog input signals like 4 to 20 mA DC, DC Voltage and all temperature sensors like RTD Pt-100, Thermocouples (type J,K,R,S). The Indicator is available in several dimensions in panel-mount execution and operates on universal AC power supply.

The instrument has single/dual Relays for control action, the set-points of which may be set from the front keyboard. Options include on/off and PID Control, Weather-proof / flame-proof executions, etc.

The ASHE CY range of Indicators offer a high degree of reliability owing to their inherent accuracy in process 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.

All ASHE range of Digital Indicators carry a lifetime warranty on design and workmanship.

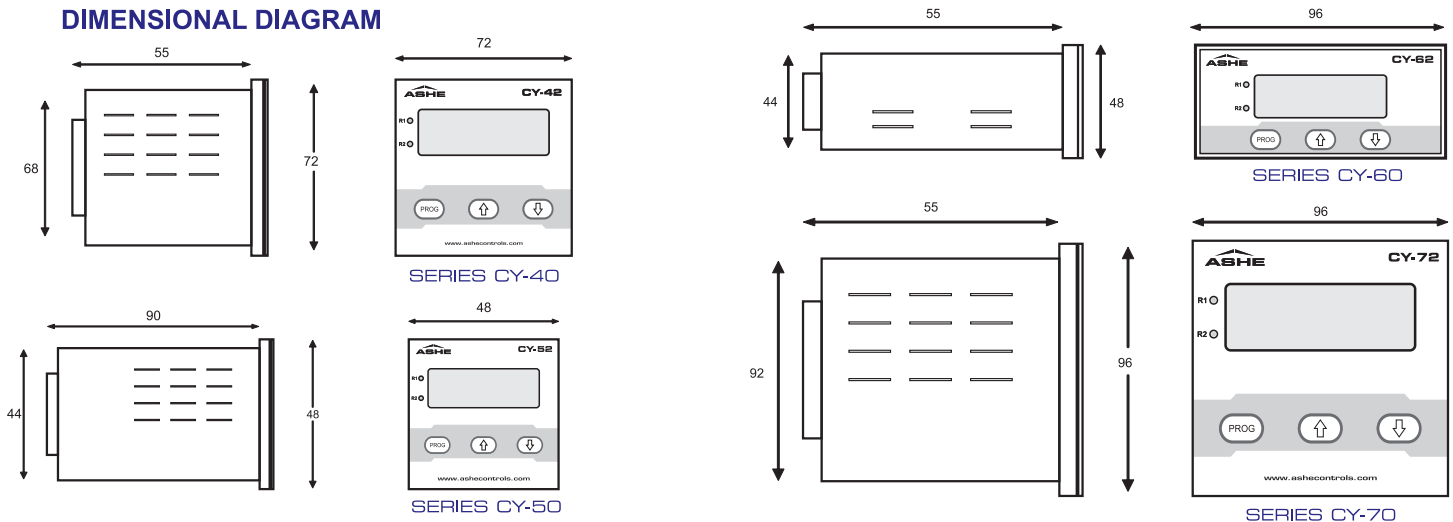
SPECIFICATIONS

Model	ASHE CY-Series
Type	Microcontroller based process indication on Digital display with dual-point control action.
Input Signals / Sensors	4 to 20 mA DC, DC Voltage (to be pre-specified) and all temperature sensors like RTD Pt-100, Thermocouples type J,K,R,S.
Display	4-digit, 0.5" seven-segment LED display.
Scale Range	-999 to +9999.
Calibration	Configurable.
Response time	< 100 mS
Linearity	+ 0.1% of span.
Calibration facility	By Membrane keypad on front panel.
Control output	One / Two relay changeover contacts (configurable).
Control Type	On/Off or PID Control.
Contact Rating	10 Ampere @ 230 V AC (resistive loads).
Control Logic	High-Low (Configurable).
Alarm indication	By LEDs on front panel.
Memory	Non-volatile.
Accuracy	± 0.1% of FSD.
Polarity	Auto-sensing.
Settings	Settings for Zero, Span, Decimal point, Relay Trip setting
Dimensions	72 x 72 x 55 mm Series 40 48 x 48 x 85 mm Series 50 48 x 96 x 55 mm Series 60 96 x 96 x 55 mm Series 70 [W x H x D].
Power Supply	90 to 270 V AC, 50 hz [Universal AC Power].
Execution	Panel mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.5 Kgs.
Operating Temperature	0 to 50 °C.

FEATURES

- Microcontroller based design.
- Low cost, high functionality
- Standard analog signals and Temperature Sensors.
- Low Input impedance – negligible load on loop.
- High accuracy and linearity to input signal
- 4-digit seven-segment digital LED displays
- Single / Dual Relay change-over contacts
- Very low power consumption and heat dissipation
- Fully configurable
- Selectable Temperature Sensors
- Temperature Linearization
- Universal AC SMPS Power Supply
- Polarity Auto-sensing
- Selectable Decimal-point
- On-Off or PID control action options
- Rugged, industrial grade ABS enclosure
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

DIMENSIONAL DIAGRAM



HOW TO ORDER

DIGITAL INDICATOR CY

1 DIMENSIONS

- ▶ 72 x 72 x 55 mm
- ▶ 48 x 48 x 85 mm
- ▶ 48 x 96 x 55 mm
- ▶ 96 x 96 x 55 mm
- ▶ 440 x 190 x 120 mm

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6
7
8

2 CONTROL RELAY OUTPUTS

- ▶ No Relay (Simple Indicator)
- ▶ One Relay
- ▶ Two Relay

0
1
2

3 INPUT SIGNALS

- ▶ 4 to 20 mA DC
- ▶ DC Voltage (to be pre-specified)
- ▶ RTD Pt-100 (three-wire)
- ▶ J type Thermocouple (0 to 750 °C)
- ▶ K type Thermocouple (0 to 1200 °C)
- ▶ R type Thermocouple (0 to 1800 °C)
- ▶ S type Thermocouple (0 to 1800 °C)

L
V
R
J
K
P
S

4 POWER SUPPLY

- ▶ 90 to 270 V AC, 50 Hz (±10%). Universal AC Power Supply.
- ▶ 20 to 70 V DC
- ▶ Other (to be specified).

S
D
Z

5 EXECUTION

- ▶ Panel mounting
- ▶ Field mounting in Weather-proof execution (MS/Polycarbonate enclosure)
- ▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)
- ▶ Other (to be specified)

C
W
X
Z

OUR OTHER PRODUCTS



FLOW TOTALIZER



SIGNAL ISOLATORS & TRANSDUCERS



TEMP. SCANNER



FLAMEPROOF INSTRUMENTS



STATIC POWER SWITCHES