

INDICATOR WITH CONTROL ACTION

VX-72



Overview

The ASHE VX-72 is part of a range of fully configurable micro-controller based universal Digital process Indicators with and without control relay outputs, 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. Dual four-digit LED display options are offered on the front panel. The display can indicate any scale range between -999 to +9999 units.

The Indicators accept all industrial standard input signals, like 4 to 20 mA DC, AC/DC Voltage, AC/DC Current, Resistance, Strain-gauge, Frequency and all temperature sensors like RTD Pt-100, Thermocouples (type J,K,R,S,T,B.E.etc.), Proximity Switches, etc. The Indicators are available in several dimensions in panel-mount execution and operates on AC or DC power supply, as required. The instrument may be used in either two-wire or four-wire configuration and is calibrated as specified.

The instrument has multiple Relays for control action, the set-points of which may be set from the front keyboard. Options include Dual display, analog retransmission signal, DIN rail mount, Weather-proof / flame-proof executions, etc.

The Ashe AF 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.

Specifications

Model Type	ASHE VX-72 Microcontroller based analog process indication on Digital display with control action.
Input Signals / Sensors	4 to 20 mA DC, AC/DC Voltage, AC/DC Current, Resistance, Strain-gauge, Frequency, Proximity Switches and all temperature sensors like RTD Pt-100, Thermocouples type J,K,R,S,T,E,B, etc.
Display	Dual, 4-digit, 0.5"/0.4" 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 outputs	Two relay changeover contacts (configurable).
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.
Retransmission	4 to 20 mA DC [optional].
Load driving capacity	600 Ohms
Polarity	Auto-sensing.
Settings	Settings for Zero, Span, Decimal point.
Power Supply	90 to 270 V AC, 50 hz universal power supply. [Optionally 24 V DC].
Dimensions	75 x 55 x 110 mm [H x W x D].
Execution	DIN Rail mounting.
Enclosure	Industrial grade ABS.
Weight	Approximately 0.5 Kgs.
Operating Temperature	0 to 50 °C.

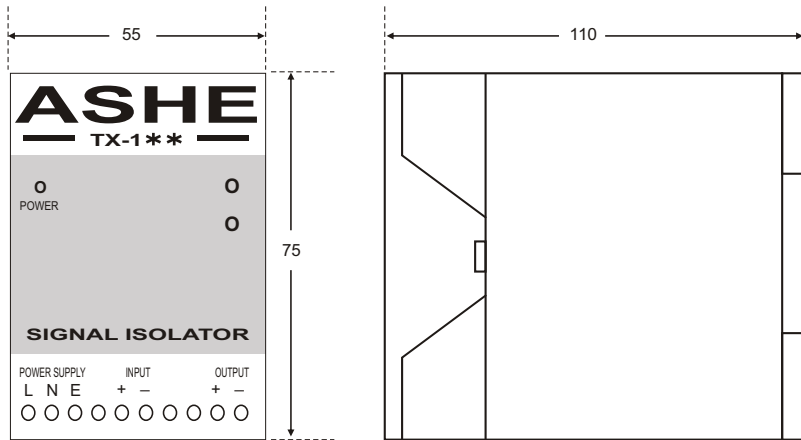
Features

- Microcontroller based design.
- Universal Input (configurable)
- Standard analog signals and Sensors.
- Compact and rugged DIN-Rail mounting
- Low Input impedance – negligible load on loop.
- High accuracy and linearity to input signal
- Dual 4-digit seven-segment LED displays
- Multiple Relay change-over contacts
- Very low power consumption and heat dissipation
- Fully configurable
- Retransmission option.
- External transmitter powering option
- Polarity Auto-sensing
- Selectable Decimal-point
- Universal AC Power Supply
- On-Off or PID control action options
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution
- Proven record of several thousand installations
- Lifetime warranty on design and workmanship

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DIMENSIONAL DIAGRAM



Dimensions : 75 x 55 x 110 mm
Execution : DIN Rail mount.

HOW TO ORDER

FREQUENCY TRANSDUCER

Input (pre-specified) : 0 to 10 KHz.
Output : 4 to 20 mA DC.
Isolation : Optical and Galvanic.
Power Supply : 230 V AC, 50 Hz / 24 V DC.
Dimensions : 75 x 55 x 110 mm.

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Configuration and Add-on options w

1 OPTICAL AND GALVANIC ISOLATION

- ▶ Required
- ▶ Not Required

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2 POWER SUPPLY

- ▶ 230 V AC ($\pm 10\%$), 50 Hz ($\pm 10\%$).
- ▶ 110 V AC ($\pm 10\%$), 50/60 Hz ($\pm 10\%$).
- ▶ 24 V DC ($\pm 10\%$).
- ▶ Other (to be specified).

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3 EXECUTION

- ▶ DIN Rail mounting [75 x 55 x 110 mm]
- ▶ Field mounting in Weather-proof execution (Polycarbonate enclosure, IP65 protection)
- ▶ Field mounting in Flame/Explosion-proof execution (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB)

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4 RETRANSMISSION

- ▶ Retransmission of 0 to 10 V DC
- ▶ No Retransmission
- ▶ Other (to be specified)

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OUR OTHER PRODUCTS



PROCESS CONTROLLER

UNIVERSAL CONTROLLER

FLOW TOTALIZER

TEMP. SCANNER

SIGNAL ISOLATORS & TRANSDUCERS

SMPS POWER SUPPLIES

ASHE CONTROLS PRIVATE LIMITED

6/317, 318 & 319, Jogani Industrial Complex, Near ATI, Sion-Trombay Road, Sion, Mumbai - 400 022, India.
Phone / Fax : (022) 2405 1561, 2405 5791 • E-mail : sales@ashecontrols.com • Website: <http://www.ashecontrols.com>