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ASHE AF-70 (No Relays)

### SPECIFICATIONS

Model Type

Input Signals / Sensors

Display

Scale Range Calibration Response time Linearity Calibration facility Control outputs

Contact Rating Control Logic Alarm indication Memory Accuracy Retransmission Load driving capacity Polarity Settings Power Supply

Dimensions

Execution Enclosure Weight Operating Temperature

0 to 50 °C.

Microcontroller based analog process indication on Digital display with control action. 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. Dual, 4-digit, 0.5"/0.4" seven-segment LED display. -999 to +9999. Configurable. < 100 mS 0.1% of span. By Membrane keypad on front panel. Upto four relay changeover contacts (configurable). 10 Ampere @ 230 V AC (resistive loads). High-Low (Configurable). By LEDs on front panel. Non-volatile. 0.1% of FSD 4 to 20 mA DC [optional]. 600 Ohms Auto-sensing. Settings for Zero, Span, Decimal point. 90 to 270 V AC, 50 hz universal power supply. [Optionally 24 V DC]. 96 x 96 x 75 mm  $[W \times H \times D].$ Panel mounting. Industrial grade ABS. Approximately 0.5 Kgs.

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The ASHE Series AF is a range of fully configurable microcontroller based universal Digital process Indicator 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. Single or 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 Indicator is 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.

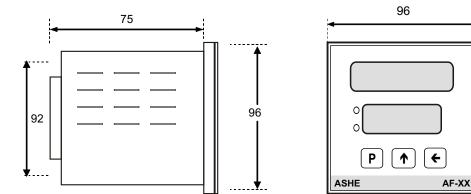
All ASHE range of Digital Indicators carry a lifetime warranty.

- Microcontroller based design.
- Universal Input (configurable)
- Standard analog signals and Sensors.
- 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
- 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

## UNIVERSAL INDICATOR AF-70



## **DIMENSIONAL DIAGRAM**



### **HOW TO ORDER** AF-70 96x96x75 mm, Panel mount, No Relay Other Options w **INPUT SIGNAL / SENSOR** 1 U Universal input signal Standard Input Signals offered (if specific input required) 4 to 20 mA DC L DC Voltage, 0-10 V DC RTD Pt-100 (three-wire) D R • J type Thermocouple (0 to 750 OC) J K P K type Thermocouple (0 to 1200 OC) R type Thermocouple (0 to 1800 OC) • s • S type Thermocouple (0 to 1800 OC) T type Thermocouple (-200 to +350 OC) • Т Optional Inputs available on request 4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans. Q • Е Resistance ► F Frequency, Proximity Sensor. • AC Voltage (to be specified) Н • AC Current (0 to 1 / 5 Ampere) A Z • Other (to be specified). • **POWER SUPPLY** 2 Standard Power Supply offered Universal AC, 90 to 270 V AC, 50/60 Hz. V Optional Power Supply available on request 24 V DC (±10%). D Other (to be specified). Ζ 3 EXECUTION Panel mounting [96 x 96 mm] D • Field mounting in Weather-proof execution W (Polycarbonate enclosure, IP65 protection) Field mounting in Flame/Explosion-proof execution Х (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) Other (to be specified) Ζ ) RETRANSMISSION 4 Retransmission of 4 to 20 mA DC R V • Retransmission of 0 to 10 V DC • No Retransmission 0

• Other (to be specified)

•

## **OUR OTHER PRODUCTS**



PROCESS CONTROLLER

SMPS POWER SUPPLIES



### ASHE CONTROLS PRIVATE LIMITED





### SPECIFICATIONS

Model Type

Input Signals / Sensors

### Display

Scale Range Calibration Response time Linearity Calibration facility Control outputs

Contact Rating Control Logic Alarm indication Memory Accuracy Retransmission Load driving capacity Polarity Settings Power Supply

Dimensions

Execution Enclosure Weight Operating Temperature ASHE AF-71 (One Relay) Microcontroller based analog process indication on Digital display with control action

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. Dual, 4-digit, 0.5"/0.4" seven-segment LED display. -999 to +9999. Configurable. < 100 mS 0.1% of span. By Membrane keypad on front panel. Upto four relay changeover contacts (configurable). 10 Ampere @ 230 V AC (resistive loads). High-Low (Configurable). By LEDs on front panel. Non-volatile. 0.1% of FSD 4 to 20 mA DC [optional]. 600 Ohms Auto-sensing. Settings for Zero, Span, Decimal point. 90 to 270 V AC, 50 hz universal power supply. [Optionally 24 V DC]. 96 x 96 x 75 mm  $[W \times H \times D].$ Panel mounting. Industrial grade ABS. Approximately 0.5 Kgs. 0 to 50 °C.

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The ASHE Series AF is a range of fully configurable microcontroller based universal Digital process Indicator 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. Single or 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 Indicator is 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.

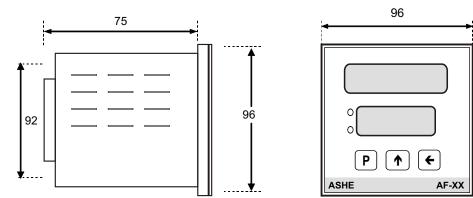
The Ashe AF range of Indicators offer a high degree of reliability owing to their inherent accuracy in process control, besides other characteristics like total immunity to shocks, dust, ambient temperatures, humidity and corrosive atmospheres. Further, the instruments are manufactured using selected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

All ASHE range of Digital Indicators carry a lifetime warranty.

- Microcontroller based design.
- Universal Input (configurable)
- Standard analog signals and Sensors.
- 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
- 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** 96x96x75 mm, Panel mount, One Relay control output AF-71 Other Options w **INPUT SIGNAL / SENSOR** 1 U Universal input signal Standard Input Signals offered (if specific input required) 4 to 20 mA DC L DC Voltage, 0-10 V DC RTD Pt-100 (three-wire) D R • J type Thermocouple (0 to 750 OC) J K type Thermocouple (0 to 1200 OC) K P S R type Thermocouple (0 to 1800 OC) • S type Thermocouple (0 to 1800 OC) • T type Thermocouple (-200 to +350 OC) • Т Optional Inputs available on request 4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans. Q • Е Resistance ► F Frequency, Proximity Sensor. • AC Voltage (to be specified) Н • AC Current (0 to 1 / 5 Ampere) A Z • Other (to be specified). • **POWER SUPPLY** 2 Standard Power Supply offered Universal AC, 90 to 270 V AC, 50/60 Hz. V Optional Power Supply available on request 24 V DC (±10%). D Other (to be specified). Ζ 3 **EXECUTION** Panel mounting [96 x 96 mm] D • Field mounting in Weather-proof execution W (Polycarbonate enclosure, IP65 protection) Field mounting in Flame/Explosion-proof execution Х (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) Other (to be specified) Ζ ) RETRANSMISSION 4 Retransmission of 4 to 20 mA DC R V • Retransmission of 0 to 10 V DC • No Retransmission 0 •

• Other (to be specified)

## **OUR OTHER PRODUCTS**



PROCESS CONTROLLER

SMPS POWER SUPPLIES



### ASHE CONTROLS PRIVATE LIMITED





### SPECIFICATIONS

Model Type

Input Signals / Sensors

### Display

Scale Range Calibration Response time Linearity Calibration facility Control outputs

Contact Rating Control Logic Alarm indication Memory Accuracy Retransmission Load driving capacity Polarity Settings Power Supply

Dimensions

Execution Enclosure Weight Operating Temperature ASHE AF-72 (Two Relays) Microcontroller based analog process indication on Digital display with control action.

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. Dual, 4-digit, 0.5"/0.4" seven-segment LED display. -999 to +9999. Configurable. < 100 mS 0.1% of span. By Membrane keypad on front panel. Upto four relay changeover contacts (configurable). 10 Ampere @ 230 V AC (resistive loads). High-Low (Configurable). By LEDs on front panel. Non-volatile. 0.1% of FSD. 4 to 20 mA DC [optional]. 600 Ohms Auto-sensing. Settings for Zero, Span, Decimal point. 90 to 270 V AC, 50 hz universal power supply. [Optionally 24 V DC]. 96 x 96 x 75 mm  $[W \times H \times D].$ Panel mounting. Industrial grade ABS. Approximately 0.5 Kgs. 0 to 50 °C.

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The ASHE Series AF is a range of fully configurable microcontroller based universal Digital process Indicator 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. Single or 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 Indicator is 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.

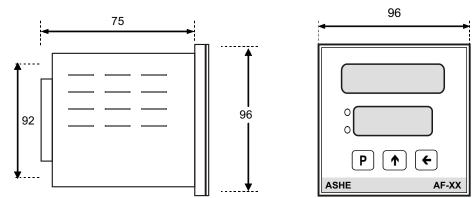
The Ashe AF range of Indicators offer a high degree of reliability owing to their inherent accuracy in process control, besides other characteristics like total immunity to shocks, dust, ambient temperatures, humidity and corrosive atmospheres. Further, the instruments are manufactured using selected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

All ASHE range of Digital Indicators carry a lifetime warranty.

- Microcontroller based design.
- Universal Input (configurable)
- Standard analog signals and Sensors.
- 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
- 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** 96x96x75 mm, Panel mount, Two Relay control outputs AF-72 Other Options w **INPUT SIGNAL / SENSOR** 1 U Universal input signal Standard Input Signals offered (if specific input required) 4 to 20 mA DC L DC Voltage, 0-10 V DC RTD Pt-100 (three-wire) D R • J type Thermocouple (0 to 750 OC) J K type Thermocouple (0 to 1200 OC) K P S R type Thermocouple (0 to 1800 OC) • S type Thermocouple (0 to 1800 OC) • T type Thermocouple (-200 to +350 OC) • Т Optional Inputs available on request 4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans. Q • Е Resistance ► F Frequency, Proximity Sensor. • AC Voltage (to be specified) Н • AC Current (0 to 1 / 5 Ampere) A Z • Other (to be specified). • **POWER SUPPLY** 2 Standard Power Supply offered Universal AC, 90 to 270 V AC, 50/60 Hz. V Optional Power Supply available on request 24 V DC (±10%). D Other (to be specified). Ζ 3 **EXECUTION** Panel mounting [96 x 96 mm] D • Field mounting in Weather-proof execution W (Polycarbonate enclosure, IP65 protection) Field mounting in Flame/Explosion-proof execution Х (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) Other (to be specified) Ζ ) RETRANSMISSION 4 Retransmission of 4 to 20 mA DC R V • Retransmission of 0 to 10 V DC •

**OUR OTHER PRODUCTS** 



PROCESS CONTROLLER

No Retransmission

Other (to be specified)

• •

SMPS POWER SUPPLIES

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### ASHE CONTROLS PRIVATE LIMITED





### SPECIFICATIONS

Model Type

Input Signals / Sensors

Display

Scale Range Calibration Response time Linearity Calibration facility Control outputs

Contact Rating Control Logic Alarm indication Memory Accuracy Retransmission Load driving capacity Polarity Settings Power Supply

Dimensions

Execution Enclosure Weight Operating Temperature ASHE AF-73 (Three Relays) Microcontroller based analog process indication on Digital display with control action.

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. Dual, 4-digit, 0.5"/0.4" seven-segment LED display. -999 to +9999. Configurable. < 100 mS 0.1% of span. By Membrane keypad on front panel. Upto four relay changeover contacts (configurable). 10 Ampere @ 230 V AC (resistive loads). High-Low (Configurable). By LEDs on front panel. Non-volatile. 0.1% of FSD. 4 to 20 mA DC [optional]. 600 Ohms Auto-sensing. Settings for Zero, Span, Decimal point. 90 to 270 V AC, 50 hz universal power supply. [Optionally 24 V DC]. 96 x 96 x 75 mm  $[W \times H \times D].$ Panel mounting. Industrial grade ABS. Approximately 0.5 Kgs.

0 to 50 °C.

## 

The ASHE Series AF is a range of fully configurable microcontroller based universal Digital process Indicator 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. Single or 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 Indicator is 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.

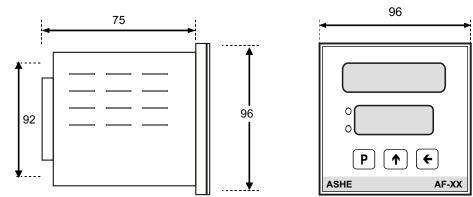
The Ashe AF range of Indicators offer a high degree of reliability owing to their inherent accuracy in process control, besides other characteristics like total immunity to shocks, dust, ambient temperatures, humidity and corrosive atmospheres. Further, the instruments are manufactured using selected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

All ASHE range of Digital Indicators carry a lifetime warranty.

- Microcontroller based design.
- Universal Input (configurable)
- Standard analog signals and Sensors.
- 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
- 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** 96x96x75 mm, Panel mount, Three Relay control outputs AF-73 Other Options w **INPUT SIGNAL / SENSOR** 1 U Universal input signal Standard Input Signals offered (if specific input required) 4 to 20 mA DC L DC Voltage, 0-10 V DC RTD Pt-100 (three-wire) D R • J type Thermocouple (0 to 750 OC) J K type Thermocouple (0 to 1200 OC) K P S R type Thermocouple (0 to 1800 OC) • • S type Thermocouple (0 to 1800 OC) T type Thermocouple (-200 to +350 OC) • Т Optional Inputs available on request 4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans. Q • Е Resistance ► F Frequency, Proximity Sensor. • AC Voltage (to be specified) Н • AC Current (0 to 1 / 5 Ampere) A Z • Other (to be specified). • **POWER SUPPLY** 2 Standard Power Supply offered Universal AC, 90 to 270 V AC, 50/60 Hz. V Optional Power Supply available on request 24 V DC (±10%). D Other (to be specified). Ζ 3 **EXECUTION** Panel mounting [96 x 96 mm] D • Field mounting in Weather-proof execution W (Polycarbonate enclosure, IP65 protection) Field mounting in Flame/Explosion-proof execution Х (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) Other (to be specified) Ζ ) RETRANSMISSION 4 Retransmission of 4 to 20 mA DC R V • Retransmission of 0 to 10 V DC • No Retransmission 0 •

• Other (to be specified)

## **OUR OTHER PRODUCTS**



SMPS POWER SUPPLIES



## ASHE CONTROLS PRIVATE LIMITED





### SPECIFICATIONS

Model Type

Input Signals / Sensors

Display

Scale Range Calibration Response time Linearity Calibration facility Control outputs

Contact Rating Control Logic Alarm indication Memory Accuracy Retransmission Load driving capacity Polarity Settings Power Supply

Dimensions

Execution Enclosure Weight Operating Temperature ASHEAF-74 (Four Relays)

Microcontroller based analog process indication on Digital display with control action.

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. Dual, 4-digit, 0.5"/0.4" seven-segment LED display. -999 to +9999. Configurable. < 100 mS 0.1% of span. By Membrane keypad on front panel. Upto four relay changeover contacts (configurable). 10 Ampere @ 230 VAC (resistive loads). High-Low (Configurable). By LEDs on front panel. Non-volatile. 0.1% of FSD 4 to 20 mADC [optional]. 600 Ohms Auto-sensing. Settings for Zero, Span, Decimal point. 90 to 270 VAC, 50 hz universal power supply. [Optionally 24 V DC]. 96 x 96 x 75 mm [W x H x D]. Panel mounting. Industrial grade ABS. Approximately 0.5 Kgs. 0 to 50 °C.

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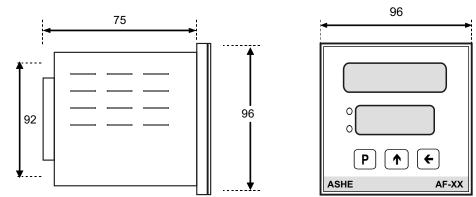
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- Very low power consumption and heat dissipation
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- Retransmission option.
- External transmitter powering option
- Polarity Auto-sensing
- Selectable Decimal-point
- Universal AC Power Supply
- On-Off or PID control action options
- Rugged, industrial grade ABS enclosure
- High Noise immunity.
- Panel / Field / Hazardous-area installation in IP65 execution
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- Lifetime warranty on design and workmanship



## **DIMENSIONAL DIAGRAM**



#### **HOW TO ORDER** 96x96x75 mm, Panel mount, Four Relay control outputs AF-74 Other Options w **INPUT SIGNAL / SENSOR** 1 U Universal input signal Standard Input Signals offered (if specific input required) 4 to 20 mA DC L DC Voltage, 0-10 V DC RTD Pt-100 (three-wire) D R • J type Thermocouple (0 to 750 OC) J K type Thermocouple (0 to 1200 OC) K P S R type Thermocouple (0 to 1800 OC) • • S type Thermocouple (0 to 1800 OC) T type Thermocouple (-200 to +350 OC) • Т Optional Inputs available on request 4 to 20 mA DC with aux 24 VDC @ 100 mA power for Trans. Q • Е Resistance ► F Frequency, Proximity Sensor. • AC Voltage (to be specified) Н • AC Current (0 to 1 / 5 Ampere) A Z • Other (to be specified). • **POWER SUPPLY** 2 Standard Power Supply offered Universal AC, 90 to 270 V AC, 50/60 Hz. V Optional Power Supply available on request 24 V DC (±10%). D Other (to be specified). Ζ 3 **EXECUTION** Panel mounting [96 x 96 mm] D • Field mounting in Weather-proof execution W (Polycarbonate enclosure, IP65 protection) Field mounting in Flame/Explosion-proof execution Х (Cast Aluminum Alloy LM6 enclosure, for Gas groups IIA, IIB) Other (to be specified) Ζ • RETRANSMISSION 4 Retransmission of 4 to 20 mA DC R V • Retransmission of 0 to 10 V DC • No Retransmission 0 •

### • Other (to be specified)

## **OUR OTHER PRODUCTS**



SMPS POWER SUPPLIES



### ASHE CONTROLS PRIVATE LIMITED