FALCON - 1600



Features

- Ruggedised, State-of-the-art Micro-controller based system.
- Horizontal or Vertical version as per your panel design
- Universal input mA / RTD / Volt / Thermocouples for each channel (factory set).
- Control Output for each channel, indication on front.
- User configurable span for mA / Volt inputs.
- **☞Ideal for SCADA applications.**
- Flameproof enclosure Optional.

Application

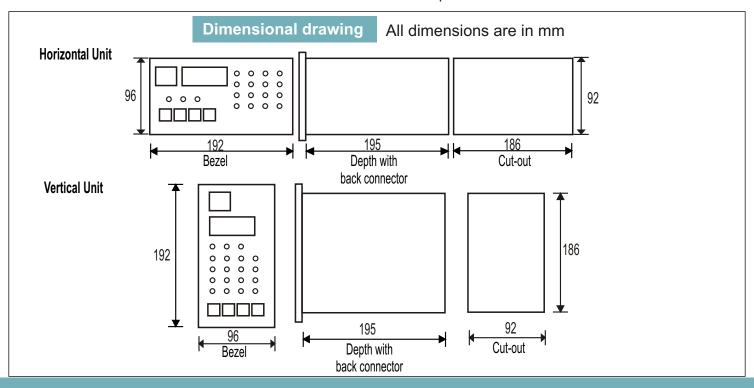
Falcon 1600 is a highly versatile and economical module having Analog Inputs with RS485 / Ethernet port for online communication. It is an ideal solution for SCADA applications in Process Industries. Falcon 1600 can be used along with PLC's thus reducing project cost substantially. Analog input to Falcon can be mA / RTD (PT100, 3 wire) / Thermocouple or Voltage different for each channel.

The unit has seven segment LED display for displaying process value, thus providing local indication to the operator. The Alarm / Control status of each channel is indicated on front LEDs.

Serial port RS485 - 2 wire with Modbus RTU protocol or Ethernet with MODBUS TCP is provided. This feature makes Falcon compatible with all the standard SCADA software and PLC's used in Industry

Optional -

- Internal relay output 1 or 2 for common alarm.
- External relay output 8 or 16 for Individual alarm / Alarm & Trip / Control.
- ➤ Ethernet communication facility with MODBUS TCP protocol.



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TECHNICAL SPECIFICATIONS

Input	RTD Pt100 (3wire), 0 - 20 mADC, 4-20mA, Thermocouples J,K,R,S,T,B,E 0-1VDC and 0-4VDC for each channel. (Combination factory set)
Channels	Max 16 Channels in step of 4 Channels.
Display	7 Segment RED LED, 2 - Digit Channel no. 5 - Digit Process Value with sign.
Keyboard	4 Keys tactile keyboard.
Resolution	12 Bit. RTD PT100- 0.1°C T/C J,K,R,S,B,E- 1°C;T type 0.1°C; Volt 0.001; mA- 0.01
Scan Rate	125 msec per channel (16 channels in 2 seconds)
Accuracy	± 0.5% of FSR ±1 LSD, ± 1°C for CJC
Scaling	Scaling for mA and Voltage inputs through keyboard.
Display Update Rate	Display Update rate and Display scroll mode programable through keyboard.
LED Indications	LED indications for Control output status and Serial communication.
Serial Port	Optically isolated RS485 - 2 wire port with MODBUS RTU protocol. Ethernet port optional.
Alarm Output (Optional)	1 or 2 common alarm relay output, contact rating 230 VAC,1 Amp. Confirm relay logic at the time of ordering.
Control Output (Optional)	8 or 16 nos external relay outputs used as a) 1 Relay per channel with Alarm / Control logic b) 2 Relay per channel (max 8 channels) with alarm-trip logic. External relays can be operated from SCADA also. Confirm relay logic at the time of ordering.
Supply	230 VAC / 110 VAC ±10 %, 50 Hz
Connections	Screw type connectors on back panel. Male / Female connection for supply & RS485.
Cabinet	Panel mounting instrument as per dimensions given below: Horizontal Unit Bezel: 96 x 192mm (H x W) Depth: 195 mm Cutout: 92 x 186 mm (H x W) Cutout: 186 x 92 mm (H x W)

ORDERING INFORMATION

Falcon-1600- Tx- Sx- Nxx- IAx- IBx- ICx- IDx- Cx- Px- Oxx- Ex

T = Type; 0= Horizontal; 1= Vertical **S = Supply**; 0= 230VAC; 1= 110VAC

N = No.of.channels; 04=4; 08=8; 12=12; 16=16

IA = Input ch.1-4; * IB = Input ch.5-8; * IC = Input ch.9-12; * ID = Input ch.13-16; *

C = Communication; 0= RS485; 1= Ethernet

P = Protocol; 0= MODBUS RTU; 1= MODBUS TCP; 3= ASCII

O = Relay output; 01= 1; 02= 2; 08= 8; 16= 16

E = Enclosure; 0= Panel Mounting; 1= Flameproof

* Pt100; 0-20 mA; 4 - 20 mA; DCVolt - 1V, 4V; TC J, K, R, S, T, B, E

Note: Due to continuous development specifications may change without prior notice

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