Falcon 100

Features

☞ **Ruggedised, State-of-the-art Micro-controller based system.**

☞ **Single Channel 4-20mA Input.**

☞ **Very high resolution & accuracy.**

☞ **Span / Zero trimpot provided for calibration.**

☞ **Serial Communication on RS 485 / RS232 with Modbus RTU or ASCII protocol.**

☞ **24VDC, 100mA Excitation supply for external transmitter.**

☞ **DIN rail mounting.**

☞ **Ideal for SCADA applications and OEM's.**

Application

Falcon 100 is a single channel analog input to RS485 / RS232 output module, which is best suitable for SCADA applications. The output is on RS485 / RS232 with Modbus RTU protocol which is a industry standard protocol. Optionally ASCII protocol can be provided.

24VDC, 100mA excitation supply for transmitter is provided. DIN Rail mounting makes it easy to be fitted in panel. It operates on 230 VAC or 110 VAC supply(factory set). DIP switch is provided for ID and baud rate settings.

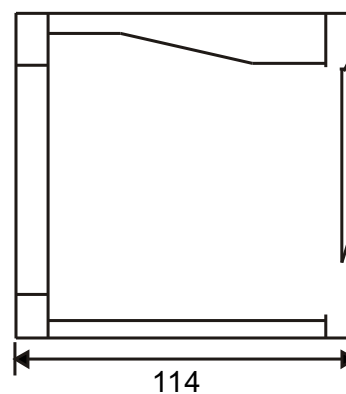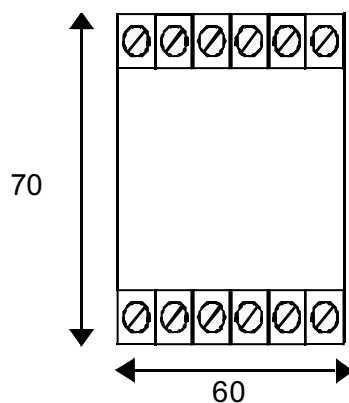LED's are provided for Serial Transmission and Receive signal status. This feature is useful for diagnostic purpose.

In many applications transmitters are located far away from control room. Conventionally we have to lay separate signal cable from each transmitter to the control room. By using Falcon 100 you can directly connect transmitter to RS485 bus. This saves cost and time for cable laying. Moreover the signal noise problems are completely eliminated as we are transmitting digital signal to control room. OEM's can use Falcon 100 and convert their existing product having 4-20 mA output into a smart RS485 output.

Dimensional drawing

All dimensions are in mm

Falcon 100

70

60

114

Falcon 100

TECHNICAL SPECIFICATIONS

Input	4- 20 mA DC linear.
Supply	230VAC / 110VAC, ±10 %, single phase, 50 Hz.
Accuracy	± 0.3 % of FSR ± 1 LSD.
Resolution	4 ½ Digit.
Indications	3 mm LED indication for system operation and serial communication status.
Retransmission Output	4-20 mA true Retransmission Output for indication.
Transmitter Power Supply	24 VDC,100 mA power supply is made available for the external transmitter.
Serial Communication	On line PC connectivity through SERIAL port RS485 / RS232 on MODBUS RTU or ASCII protocol. Serial settings on DIP switch.
Connections	On Screw type connectors.
Cabinet	DIN rail mount, ABS moulded, 12 terminal box Size: 70 x 60 x 114 mm (HxWxD)

ORDERING INFORMATION

Falcon 100- Sx- Cx-Px

S = Supply; 0= 230VAC; 1= 110VAC
C = Communication; 0= RS232; 1= RS485
P = Protocol; 0 = Modbus; 1 = ASCII

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