FALCON 1600 DL

Features

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

☞ **Accepts Analog input mA / RTD / Volt / Thermocouple for each channel factory set.**

☞ **Control Output for each channel, with indication on front - Optional.**

☞ **User configurable span for mA / Volt inputs.**

☞ **Datalogging and Printing.**

☞ **Pendrive interface - Optional.**

☞ **Serial communication on RS485 port with Modbus or ASCII protocol.**

Application

FALCON 1600 DL is a highly versatile and economical Data logger having Analog Inputs with RS232 port for communication. It can be used as :

1) Standalone Datalogger
2) Datalogger with annunciator
3) Datalogger Controller
4) Datalogger with SCADA Connectivity

FALCON 1600 DL has very high logging memory so data of several days can be recorded. Analog input to FALCON 1600 DL can be mA / RTD (PT100, 3 wire) / Thermocouple or Voltage.

Recorded data can be transferred to PC through serial port in Excel file. Auto-Printout of data can be taken online at a settable print interval or manually you can take printout of all data which is recorded.

The unit has seven segment LED display for displaying process value, thus providing local indication to the operator.
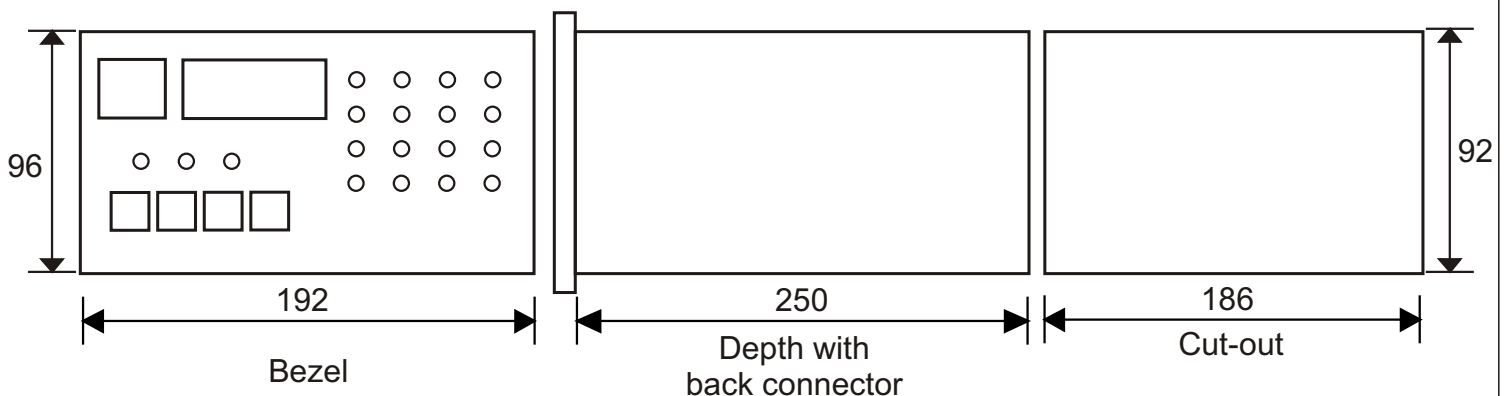
Memory Capacity: 13150 readings per channel in case of 16channel logger or 35700 readings in case of 4channel logger.

Optional Features-

➤Control outputs can be used with external relay module for control. The status is indicated on front LEDs.

➤Pen drive connectivity: In-built pen-drive interface is provided for data downloading / recording. 8GB pen drive can be connected which is equivalent to 100 million readings per channel.

➤MODBUS RTU protocol for serial communication is provided for SCADA application.

➤Printout: Printer header information can be supplied as per user requirement optionally.

Dimensional drawing   All dimensions are in mm

96		92
192	250	186
Bezel	Depth with back connector	Cut-out

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TECHNICAL SPECIFICATIONS

Input	RTD Pt100 (3wire); 4 - 20 mADC; DCVolt - 1V, 4V; Thermocouples J,K,R,S,T,B,E fixed for each channels. (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 including 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.
Data logging	Realtime data logging of 13150 readings per channel in internal memory and almost 100 million readings stored on pendrive. Logging interval Min/ Sec. Data logging Enable / Disable facility is available. Optional Data backup facility for SCADA application.
Printing	Auto/ Manual Printing- Centronics compatible parallel printer port for DOT matrix printer. Print interval 1 to 240min. Printout format standard. Customised header information optionally available.
LED Indications	LED indication for Serial / Memory Full / Common Relay and Control/ Alarm outputs
Serial Port	RS232 port with ASCII Protocol. Optional- RS485 with MODBUS RTU protocol
Alarm Output	One common alarm relay output, contact rating 230 VAC,1 Amp.
Control Output (Optional)	Digital output for each channel working on individual HI/LO limits To be used with external relay module.- Hi/Lo limits for each channel are programable through keyboard
Supply	230 VAC ±10 %, 50 Hz, Optional - 110 VAC ±10%,50 Hz
Connections	All Male / Female connectors for Inputs and supply. Screw type for Common Alarm. D type for RS232 / Printer and Pen drive attachment.
Cabinet	Panel mounting type: Bezel: 96 x 192mm (H x W) Depth: 250 mm Cutout: 92 x 186 mm (H x W)

ORDERING INFORMATION

Falcon-1600 DL- Sx- Nxx- IAx- IBx- ICx- IDx- Cx- Px- Oxx- Ux- PHx

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= RS232; 1= RS485
P = Protocol; 0= ASCII; 1= MODBUS;
O = Relay output; 01= 1; 08= 8; 16= 16
U = USB; 0= No; 1= Yes
PH = Print header; 0= Standard; 1= Customised

* Pt100 ; 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*