DATA LOGGER

DAQ4000

16/32/48 Analog Inputs

Alphanumeric Backlit Display

RS232 Printer Output

USB Output

DAQ4000 is a 48 Channel data logger. Data can be transferred to PiSCADA over Ethernet. The data logger along with the PISCADA system adheres to all the requirements of 21CFR Part 11. Printer output and USB are also available for Data transfer. All the required configurations can be programmed from the PiSCADA system.

Features

- Inbuilt Memory: 21600 Records
- Ethernet communication
- 48 Analog Inputs(AI)(RTD/0-1//0-10V)
- Inbuilt RTC, stamps each data
  packet with real time & date
- Displays Process Values in Alphanumeric
  Backlit LCD display
- 2 alarms per channel
- 1 Relay output for Alarm
- *USB data export via PDF and CSV

- Remotely configurable from PISCADA
  Software or from front panel
- Extensive diagnostics to help in
  trouble shooting
- Fast sampling and generation of alarm
- RS232 for Dot matrix printer
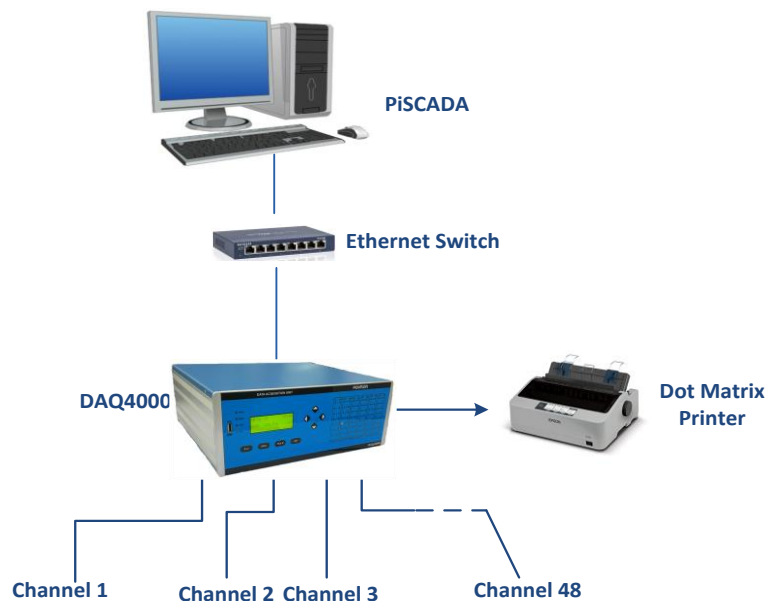- No data lost in case of printer failure

Advantages

- Store and forward feature enables gap free data
  logging in the event of PISCADA failure
- Power on, power off, communication failure
  events are recorded

Applications

- Validation
- Mapping
- Reactor process parameters
- EMS
- Data center
- Cold room etc

Network Architecture

PiSCADA

Ethernet Switch

DAQ4000

Dot Matrix Printer

Channel 1   Channel 2   Channel 3   Channel 48

Specifications

Model No	DAQ4000
No. of Channels	Upto 48(16/32/48)
Input type	RTD(Pt100) 3-wire, Current (4-20mA), Voltage(0-1/0-10V)

Measurement range, Accuracy and Resolution	Measuring range	Resolution	Accuracy
RTD	-200°C to 500°C	0.1, 1	±0.05% of FSR
4-20mA/ 0-10V/ 0-1V	-1.999 to 9.999	0.001	±0.1% of FSR
	-19.99 to 99.99	0.01	
	-199.9 to 999.9	0.1	
	-1999 to 9999	1	

Digital Outputs	1 C, NO, NC (Relay)
Display	Alphanumeric LCD
	3mm LED's for Alarm status indication
Scan Rate	1 Sec/ Channel
Log Rate	1 min
Communication	MODBUS TCP/IP (Ethernet)
Keypad	Membrane Keys
ADC	24 bit resolution
Clock accuracy	±1 Seconds with respect to NTP Server
	± 2 Minute/Year (Stand Alone mode)
Output Port	USB (Logged data retrieval)
Printer Output	RS232
Time Synchronisation	NTP Server / From front panel
Memory	21600 Records
Programming	a. From front panel by user- friendly keys
	b. Remotely from PC by PiSCADA software

Power Supply

Power Supply	100 to 240V AC 50Hz

Physical

Enclosure material	MS
Weight	1.5 Kg approx.
Dimensions	340x240x130mm
Mounting	Table Mounting

Environmental

Operating Temperature	10-60°C
Humidity	10-95%RH, Non-Condensing

Ordering Information for DAQ4000

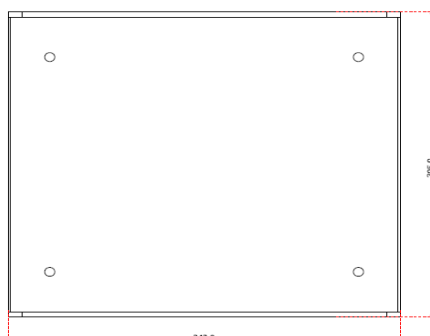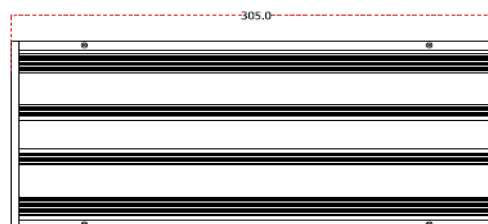| DAQ4000	X	X	X	X	X	X
Model No	I/P Card Type	Print Format	Communication	Relay O/P	USB Output	Future Use
DAQ4000	1 - Analog (16 Ch)	1 - Default format	1 - Ethernet	1 - Relay (1C, NO-NC)	0 - No	
	2 - Analog (32Ch)				1 -Yes	
	3 - Analog (48Ch)					

MECHANICAL DRAWING OF DAQ4000
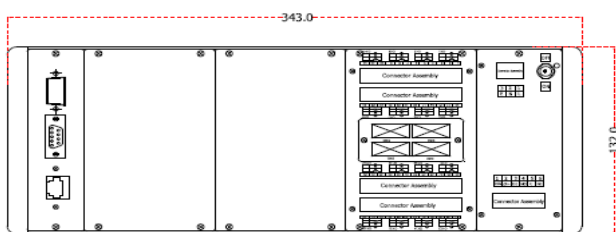
BACK VIEW
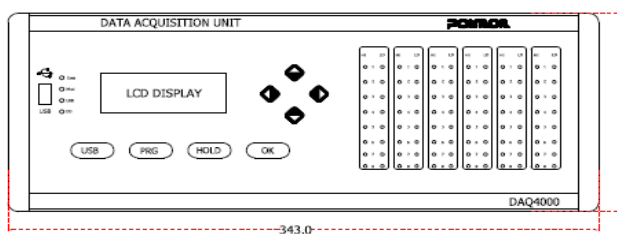
FRONT VIEW

BOTTOM VIEW

R.SIDE VIEW