

DAQ Studio

PC based data logging software to be used with Modbus based devices like IO Modules

Features

1. Maximum tags :1024
2. Real time trends, Bar graphs, Digital values
3. Real Time Alarms & Historical Alarms
4. Number of display pages: 200 maximum
5. Number of pens/page: 1 to 24 (Configurable)
6. Timers: 50, Counters: 50 & Totalizers: 50
7. Log Speed: 1, 2, 5 10, 30, 60 and 120 Sec
8. Log trigger type: By time, By value change
9. Log Methods: Instant, Average, Minimum & Maximum
10. Project Auto configuration with IO modules to create data base
11. Mathematic channels to write expressions or formula
12. Data Types: 2 byte, 4 byte and 8 byte, Decimal: 0 to 4
13. Alarms by email and 100 customized comments for Alarms
14. Event Types: H, HH, L, LL, Rate of increase, Rate of decrease and Error
15. Number of events per Analog Channel: 5, Number of Jobs/event: 2
16. Available Jobs: Log Alarm, Log Event, Log Alarm (Auto ack.), send email, Sound buzzer, DO Latch ON, DO Latch OFF, DO Process, Enable Timer, Disable Timer, Preset Totalizer, Reset Totalizer, Enable Totalizer, Disable Totalizer, Preset Counter, Reset Counter, Increase Counter, Decrease Counter, Log Report, Reset Min/Max/Avg and Log Message
17. Math functions: SIN, COS, EXP, SQRT, LN, LOG, ABS, POW, ROUND, HI, LO, INV, TG, CTG, ASIN, ACOS and ATG
18. Display languages: English, French, German, Italian, Japanese, Korean, Polish, Portuguese, Russian, Spanish, Thai and Czech, Chinese (Traditional) and Chinese (Simplified)

Historical viewer features

1. Display Historical trend, Historical alarms/Events
2. Display Historical values in tabular column
3. Mark Remarks on data (Comments)
4. Search data by Time, Timer Period, Event/Alarm, tag wise and Remark
5. View trends both Horizontally and Vertically
6. Zoom out & Zoon In
7. Display view options available at 1 sec/dot, 2 sec/dot, 5 sec/dot, 10 sec/dot, 20 sec/dot, 30 sec/dot, 1 min/dot, 2 min/dot, 5 min/dot, 10 min/dot, 30 min/dot, 10 min/page, 30 min/page, 1 hr/page, 2 hr/page, 4 hr/page, 8 hrs/page, day/page, week/page and Month/page
8. Display white back ground/black background
9. Print trend view, Event/Alarm list, Reports & Tag Values
10. Export data and alarms/events to CSV files. (Specify time or time period or all)



IO Studio

It is standard PC software used to configure the communication settings for IO modules on the Modbus network. Once a module is detected, it is possible to view real-time data of the module directly on PC and it can be used for diagnostic purpose as well. All IO modules support RS485 communication. A RS232 to RS485 converter should be used between module and PC for configuration purpose. The address of each module is set up by using dip switches available on the module itself.

IO-485REP : Isolated RS232/RS485 to RS485 Repeater

The IO-485REP unit is a bi-direction isolated serial repeater unit used to convert 2 wire RS485 twisted pair (or 3 wire RS232) data communications signals to another isolated 2 wire RS485 twisted pair cable to. It is used to extend a RS485 network up to a further 1000 meters and provide isolation to prevent ground loops between different parts of the network.

Power Supply	Logic Supply Voltage	12 -24 Vdc
	Logic Supply Current	50mA @ 12V / 25mA @ 24V
Communications Settings (Switch Selectable)	Baud Rate	2400, 4800, 9600, 19200, 38400, 57600, 115200
	Data Bits	7 or 8
	Stop Bits	1 or 2
	Parity	None, Even or Odd
PORT 0	RS232 or RS485 (selected with jumpers)	Two wire twisted pair + earth wire
PORT 1	RS485	Two wire twisted pair + earth wire
Transmission Distance	RS485	Up to 1Km
Isolation	RS485	Transformer/ OptoCoupler 1500VACrms
Connectors	Logic Power and Comms	4 Pin Connector on underside of unit
	Isolated RS485 Comms	4 Pin Connector on front of unit



IO-485REP