technics

INDUSTRIAL CONTROL TRAINER FOR LABVIEW / ADAMVIEW.

The Industrial Control Trainer comprising of Analog Inputs, Direct Thermocouple inputs, Digital Inputs, Digital Outputs is an ideal trainer to learn the concept of distributed / Field I/O using RS485 protocol with the Industry Standard Data Acquisition Software like LABVIEW®, DASYLAB®, ADAMVIEW and optionally INTELLUTION ®.

A perfect tool to teach / learn Design of a Data Acquisition System, the product provides a comprehensive Step-by-Step learning resource for LABVIEW etc. From creating your application to debugging and finally implementing along with simulated inputs from sensors or switches to outputs on high brightness large size LEDs the product is an immense help in Learning the concept of Data Acquisition and Control.
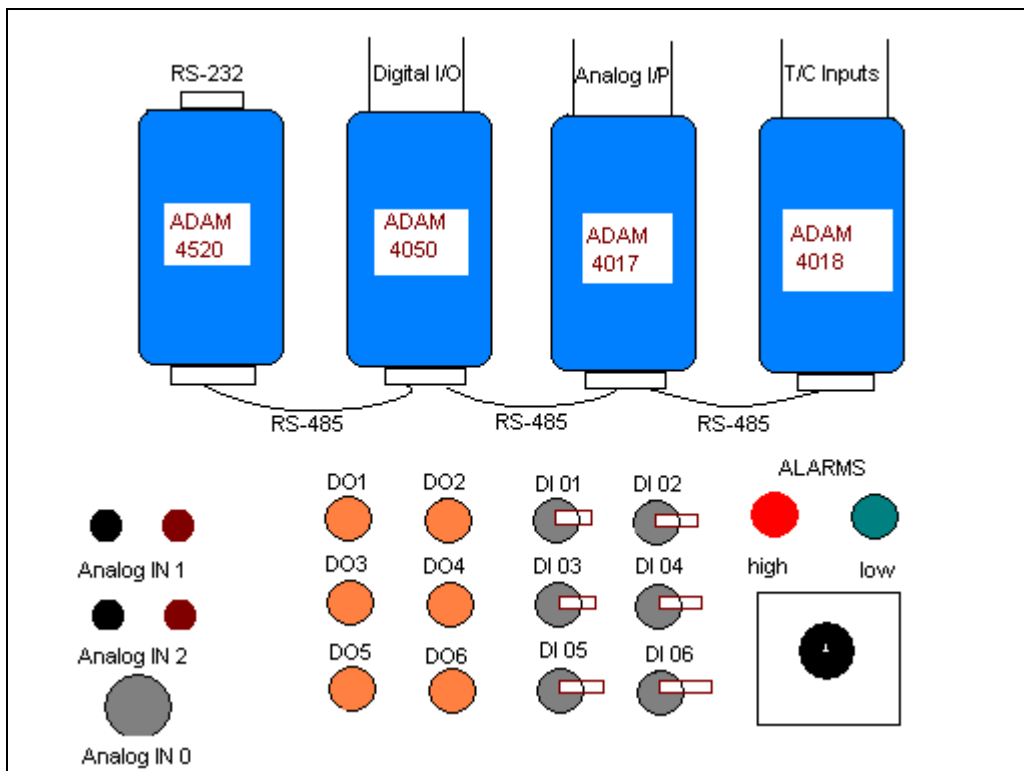

Fig. 1   BLOCK DIAGRAM FOR THE INDUSTRIAL CONTROL TRAINER

SPECIFICATIONS:-

ANALOG INPUT	6 Differential 2 Single Ended 16-Bit mV, V, mA inputs Low Power Built in Watch-Dog Timer 10 samples / sec. RS-485 protocol
THERMOCOUPLE INPUTS	8 Channels 16-Bit J,K,R,T,S and E type Thermocouples plus mV, V and mA inputs. 10 samples / sec. Low Power Built in Watch-Dog Timer RS-485 protocol
DIGITAL INPUT/OUTPUT	Inputs - 7 Logic Level 0 - 1V max Logic Level 1 – 3.5V to 30V Outputs - 8 Open Collector – 30V Built in Watchdog Timer
RS-232 TO RS485 CONVERTER	Upto 115.2K baud RS485 (2 wire) / selectable RS422 (4 wire) /selectable

6 ORANGE LEDs (High brightness) for Digital Output.
6 SPST Switches for Digital Input.
1 RED LED (High brightness) for HIGH ALARM.
1 GREEN LED (High brightness) for LOW ALARM.
0-10Vdc Analog Input pot.
2 'J' Type Thermocouples.
24V / 2 Amp Power Supply for all Modules.
RS-232C Cable for PC Connectivity.

Supplied with LAB WORKBOOK containing experiments done in NI-LABVIEW (Hard and Soft Copy) along with the procedure to create the required VIs under NI-LABVIEW (supplied by customer).   Optionally,

Similar Workbook containing experiments done in ADVANTECH ADAMVIEW (Hard & Soft Copy) with the procedure to create the required strategies under ADVANTECH ADAMVIEW along with ADVANTECH ADAMVIEW Software (Licensed) can be supplied.

NI-LABVIEW FULL DEVELOPMENT SYSTEM Software can be supplied as an option on request.

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