

ACE 0816

Paperless Data Acquisition System

Key features :

- 8 or 16 universal input (RTD, Thermocouple 0-5Vdc, 0-20mA or 4-20 mA input signals.)
- Onboard 32000 reading per channel storage
- Parallel Port
- Individual HI / LO alarm with 2 relay outputs
- Additional relay outputs with optional Relay card
- Networkable using Ethernet Port (optional)
- Free PC Based Data Acquisition software
- 21 CFR Part 11 (optional)
- Front end IP65 protection
- 3.5 inch TFT with Touch Screen Control
- Onboard USB Port (Memory stick)

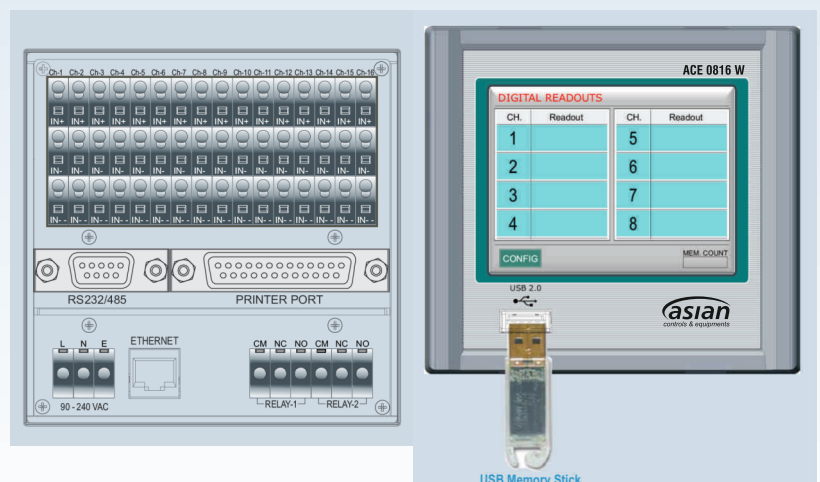
Asian Controls & Equipments has been a pioneer in the development of paperless data acquisition systems for over 15 years. The utilization of state of the art technologies to develop intelligent, powerful and intuitive products has made Asian ACE 0816 a product line competitive to global leader in paperless recording technology.

The Asian ACE 0816 is the most advanced paperless recording system available. It incorporates the latest in measurement, communication, interface and processing technologies to deliver unmatched performance for your data acquisition application.

The ACE 0816 is like no other paperless recorder available. We listened carefully to our product users and developed a device with the unique features they demanded.

Benefits :

- Easy to configure analog input type with front end TFT touchscreen
- Logged data is secured as storage media is inside the unit
- Helps to connect any type of dot matrix printer
- Relay output for control or activating external alarms
- Individual Alarm relay (HI/ LO) can be provided for all 16 channels
- Data accessible via LAN
- Not necessary to pay extra cost
- Logged data is secured and can not be manipulated by user
- Panel mounting enclosure which can sustain in harsh environment
- Easy to use icon menu for setting user parameters with touch interface
- Logged data can be downloaded to Memory stick and transfer to PC



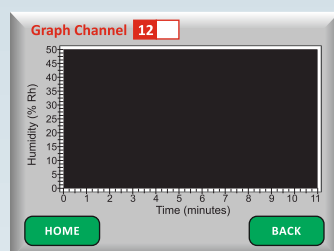
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Hardware features :

User Interface and control

The Asian ACE 0816 utilizes a high contrast 3.5-inch color Active Matrix TFT LCD display with a rugged touch screen. Use a finger or the board stylus, if you prefer to perform data entry and System navigation. The front panel is also fully compliant to IP65 for use in dusty or wet areas. An intuitive icon driven menu system guides the user through easy to follow setup and control screens. The multiple Display screens containing various combinations of indicator types such as horizontal and vertical bar graphs, large and small digital indicators and horizontal trends makes setting up the parameters extremely simple.



Graphic View

The composite graphical view can display an online graph for a single input channel at a time. Individual channels can be displayed for detailed analysis. The channel data is stored in memory with its time and date. With external PC software the user is able to manipulate the graph to make it easy to see interaction between recorded channels, or change the Color schemes, expand, compress, zoom and print. The same analysis tool used for multi-channel graph and used to scroll through data.

Tabular View

The Digital Readout Display displays online data for multiple channels. Single channel data can be viewed with bigger Digit size. The digit color channel changes when the alarming condition occurs. The alarms events can be viewed with date and time stamp in Alarm History screen. Display also shows the memory count which shows the status how more data samples can be stored in memory.

The screenshot shows the 'SETTING' menu with the following options: SET RTC, SET Log Time, SET Password, SET Parameter, Copy Memory, Print Memory, HOME, and ERASE.

The screenshot shows the 'RTC TIME SETTING' screen with fields for HOURS, MINUTES, and SECONDS, each with a minus and plus button. There are also HOME and ERASE buttons at the bottom.

The screenshot shows the 'PRINTER HEADING TEXT' screen with options for Channel 1 through Channel 6, and HOME and navigation buttons.

The screenshot shows the 'LOG TIME SETTING' screen with fields for HOURS, MINUTES, and SECONDS, each with a minus and plus button. There are also HOME and ERASE buttons at the bottom.

The screenshot shows the 'DIGITAL READOUTS' screen with a table for CH and READOUT for channels 1 through 4. There is also a MEM COUNT field and a CONFIG button.

The screenshot shows the 'ALARM HISTORY' screen with a table for No., DATE, TIME, and ALARM. There is also a MEM COUNT field and a CONFIG button.

Recording data on storage media

Using the Setup menu, the user can log the data in internal memory. If this memory is full the logged data can be transferred to external storage media connected on USB Port.

Record rate	8 channel	16 channel
1 Sec	9 Hrs	4.5 Hrs
10 Sec	90Hrs	45 Hrs
1 min	540 Hrs	270 Hrs
10 min	5400 Hrs	2700 Hrs

The above table shows the number of maximum readings can be stored internal memory by changing record time After the above prescribed time the data must be transferred to USB storage media so as internal memory get free to store the new readings.