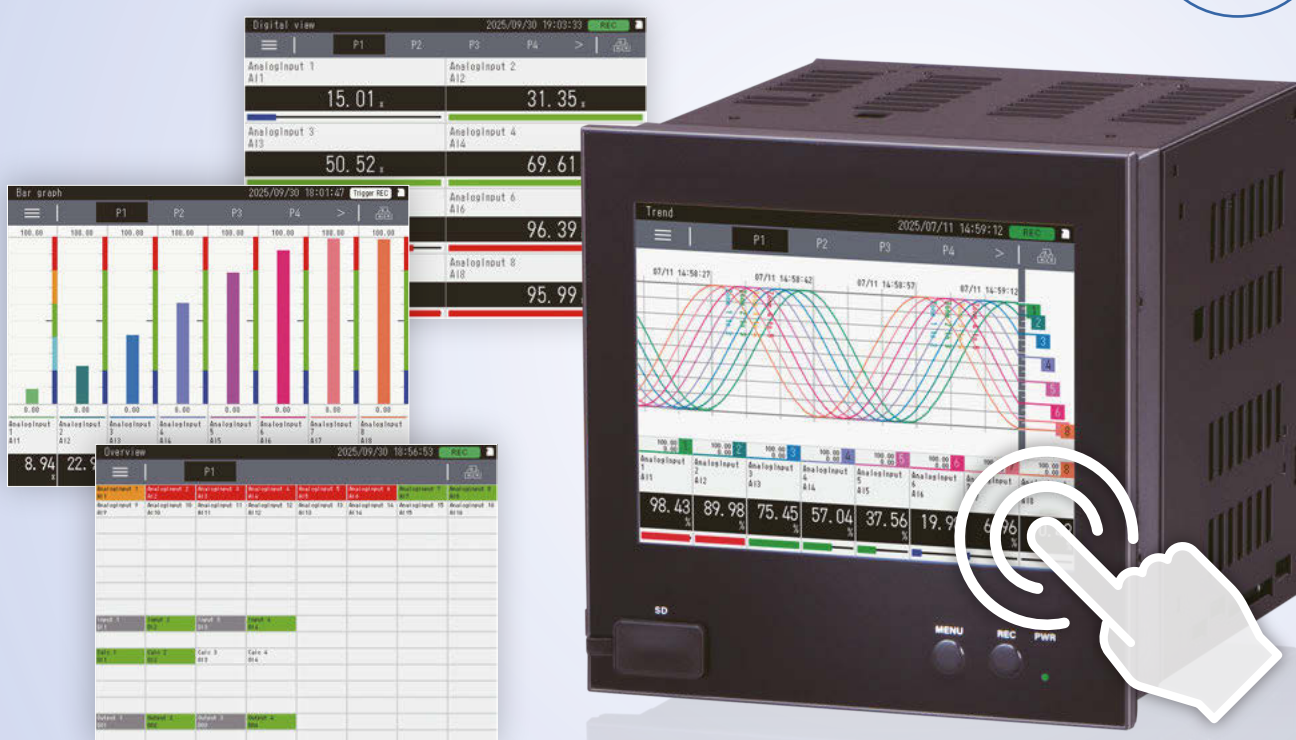


5.7-inch TFT LCD display / Touch panel

PAPERLESS RECORDER VR144E-G16

Equipped with a clear and easy-to-read
TFT LCD display

9/16 DIN
144
mm



Model: VR144E-G16  

Touch panel

Front panel
IP55

micro
SD

Introducing a new VR Series Paperless Recorder model that supports field operations with a wide variety of display screens and reliable basic functions.

The Paperless Recorder (Model: VR144E-G16) is equipped with a 5.7-inch touch-panel TFT color LCD on the 144-mm square front panel, which not only displays trend graphs and digital values in vivid colors but also allows for intuitive touch panel operation. Other key features include a graphic panel that can create any two screens, a log recording function, an e-mail reporting function, and an FTP client/server function. The I/O configuration consists of 16 Ai, 2 Di, and 2 Do points, allowing direct signal take-in and output.

100 msec. sampling rate

Records measurement data and operation status to internal memory (Storing to SD card is also possible)

Recorded data can be displayed and analyzed using the dedicated application

Graphic panel showing measurement status can be created

Usable to trigger input and alarm output

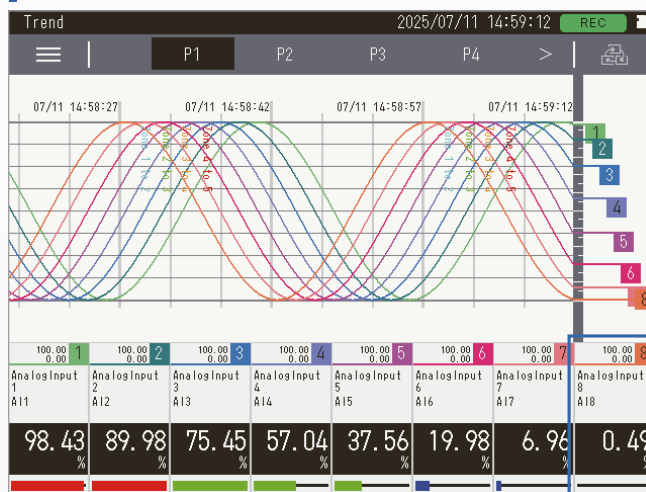
DC voltage input 16 points, Discrete input 2 points, Photo MOSFET relay output 2 points

Feature 01

Real-time measurement data can be checked, and past records can be viewed as needed.

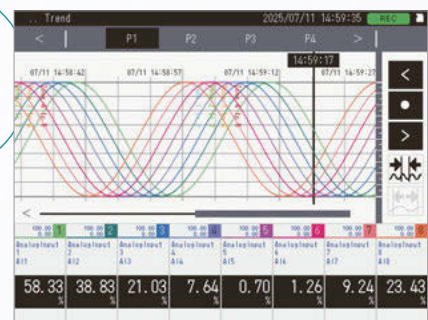
Displays include trend view and overview, which can be used for different purposes. Past records can also be freely viewed by switching to the historical trend display.

Trend Graph



Historical trend screen

Tap on the trend graph to switch to the historical trend.



Pen No., Range

Name, Comment

Present value, Unit

Bar graph

The trend graph screen displays graphs for the items per page (4 pens/page or 8 pens/page) set in the display setting. All input/output channels (Ai/Di/Oi/Do) are assigned to each pen.

Number of pens	64 (4 pen/page or 8 pen/page)
I/O channels Ai, Di, Oi, Do (all channels) assigned to pens	Ai, Di, Oi, Do (all channels)
Graph scale	0% and 100% positions specified by engineering unit values.
Data format	Dedicated format (binary, extension "TRD") or CSV format(UTF-8/SJIS).
Recorded content	Trend data, event data, comment data

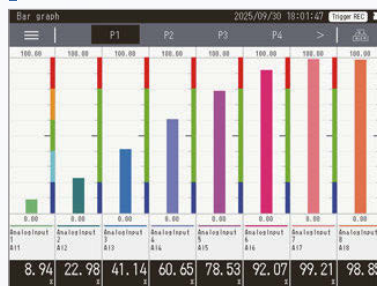
Data size	Max. 50000 samples per file x 64 pens
Auto-start	Recording can start automatically when VR144E-G16 is started. Specify either Stop / Normal / Trigger.
Storing interval	100 ms, 500 ms, 1 sec., 2 sec., 5 sec., 10 sec., 1 min., 2 min., 5 min., 10 min., 30 min., 1 hour

Overview



Displays the latest data for each channel. The display per screen can be selected from 16, 32, 64, or 128 points.

Bar graph



Displays the latest input/output values. Displays the channel assigned to the pen.

Event history



Displays up to the 40 most recent event logs that have occurred, regardless of whether event log recording is enabled or disabled.

Easy-to-read 5.7 inch TFT color LCD

Micro SD card that can be removed from the front

Touch panel

Feature 02

The VR144E-G16 records measurement data and operation/stop status of devices and equipment in the internal memory and saves it to a micro SD card.

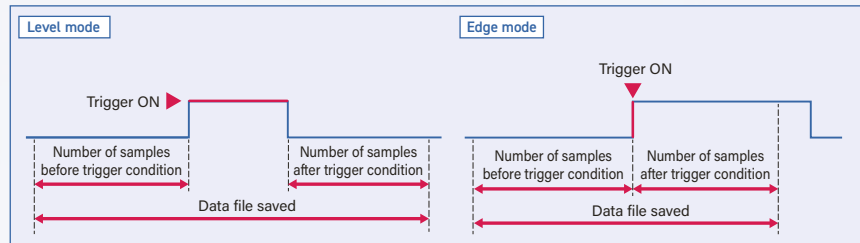
It displays and deletes trend and log data, transfers data to a micro SD card, transitions memory blocks, clears trend and log data, and initializes trend and log data in memory blocks recorded in the internal memory.



Feature 03

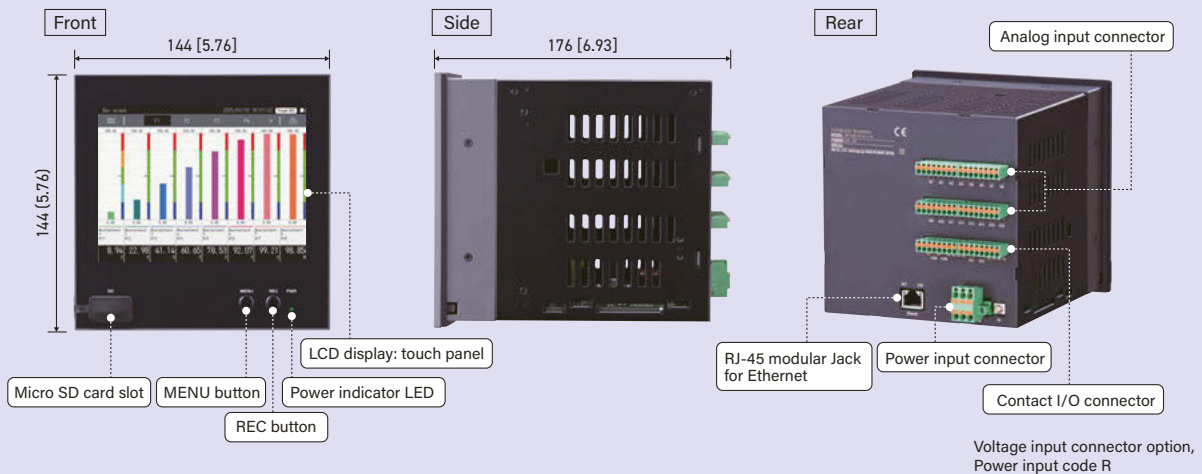
I/O signals can be used for trigger input and alarm output.

After trigger conditions for each channel of Ai, Di, and Oi are set, the set number of samples before and after the occurrence is transitioned to the memory block as a single recorded data. At the same time, the recorded data in the memory block is transferred to a micro SD card and saved as a file. Two trigger record modes can be selected: Level and Edge.

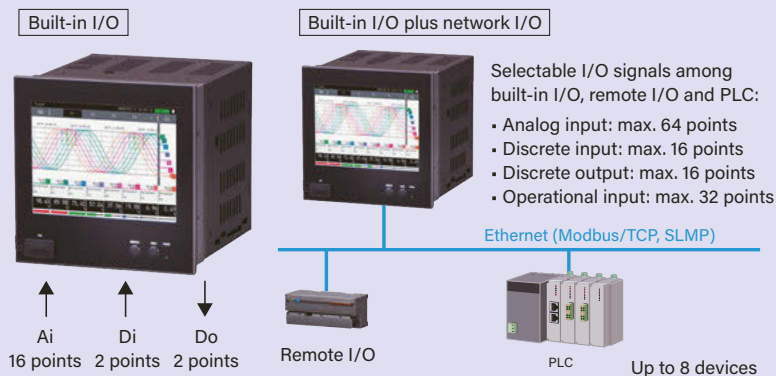


Component identification

unit: mm [inch]



System configuration



What is an operational input?

The following functions can be applied to analog signal inputs for recording:

Operational functions

Addition and subtraction / Multiplication / Division / Square root / Moving average / Delay buffer / exp / Common logarithm / Natural logarithm / Peak hold (max) / Valley hold (min) / Analog accumulation / Power / F value calculation / Antilogarithm / Scaling / Time

