

BASF (Cognis)

- The Machine is Air compressor 2 Stage, Screw type.
- The Machine is a critical machine and effect to balance of plant.
- The Machine has a break down history frequently.
- The area is uncomfortable for the maintenance team to collect data since the sound is more than 120 dB and it is confine space.
- The maintenance team can't get the real time vibration data from the air compressor, just routinely and not in time to early warning.
- The customer needs to see online data of the machine vibration to react maintenance in time.
- The customer needs a vibration protection system which can alarm immediately when the machine has a high vibration.
- We propose local HMI display with alarm and buzzer that can alert maintenance and operation team immediately as well as data recorder.

AST

BASF

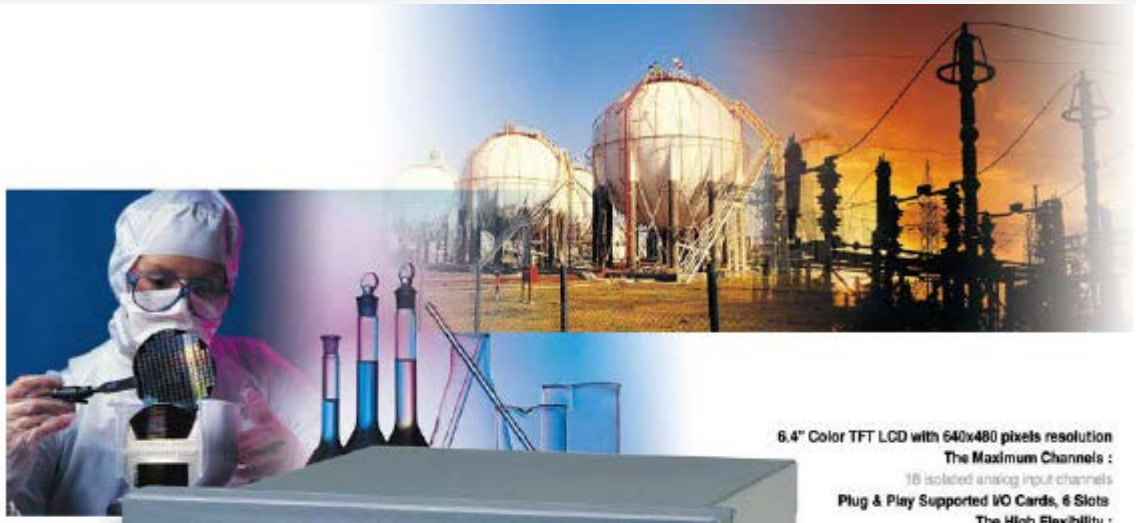
VR18 Paperless Recorder



VR18 is the World First paperless recorder of the same size with the highest resolution (true VGA , 640x480 pixels), infrared detector, 18 channels, plug & play I/O card, high flexibility, the most user - friendly and the shortest depth. In chemical plant, food & beverage plant, petrochemical plant, semiconductor plant, metal alloy, automotive plant, environmental monitoring or laboratory, VR18 can be used to monitor, record, evaluate the processes in the plants.

The user can access data on the screen as well as on site from a remote place via RS-232, RS-485, RS-422 serial interface or Ethernet networking. The historical data can be stored in flash ROM, Compact Flash Card, or collected in a remote host PC for data evaluation and print-out.

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6.4" Color TFT LCD with 640x480 pixels resolution

The Maximum Channels :

16 isolated analog input channels

Plug & Play Supported I/O Cards, 6 Slots

The High Flexibility :

User configurable I/O card

Expandable modular architecture

Flexible screen configuration

User-Friendly :

Soft keys coupled with interactive dialog simplify setup & operation procedures

Easy - to - access function keys

Infrared Detector :

Shut off LCD automatically to prolong LCD life and save power while nobody near by

Save Space :

Only 174 mm (6.9") depth behind panel

Various Display Formats :

Vertical trend, Horizontal trend, Bar Graph, Numerical or mixed

Save Data in Flash ROM, Compact Flash Card or PC

Communication :

Standard Ethernet and optional RS-232/422/485

The Highest Accuracy :

16-bit A-D analog input, 15-bit D-A analog output

Fast Sampling Rate :

Within 200 msec for all channels, Programmable Filter or Moving Average Sampling Method

Statistics with Instant, Average, Min./Max. Values

Programmable Alarms and Messages available

Portable / Bench Top Assembly Kit available

Most Valued Global Provider of Predictive Maintenance Solution

Display for real time data

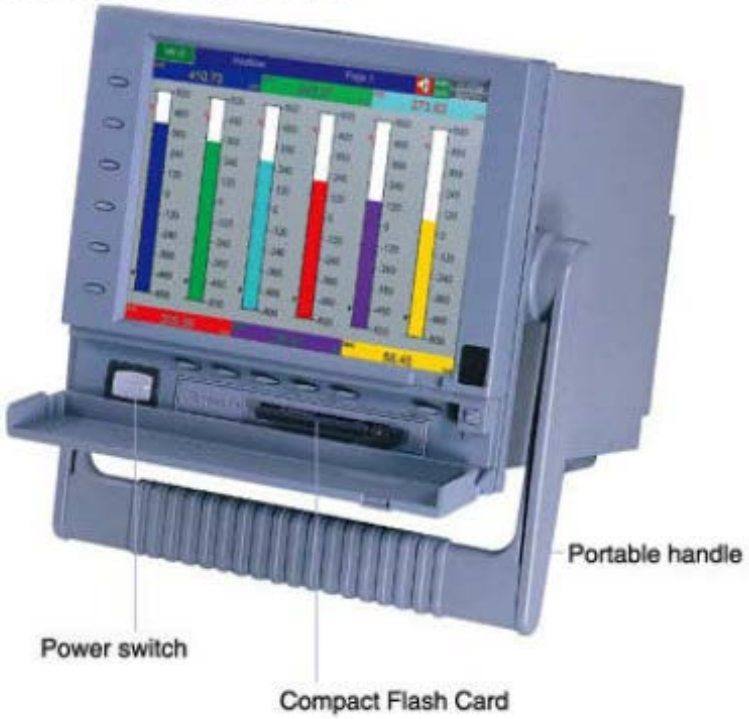
Panel Mounted Style

6.4" color TFT LCD 640x480 pixels resolution

Infrared detector protect LCD & save power



BenchTop / Portable Style



12 SOFT KEYS FOR EASY OPERATION

Rear Terminals

standard Ethernet and optional RS-232/422/485

Power supply



6 SLOTs for Plug & play I/O cards, maximum 18 analog input or mixed with analog & digital I/O cards

Display for real time data

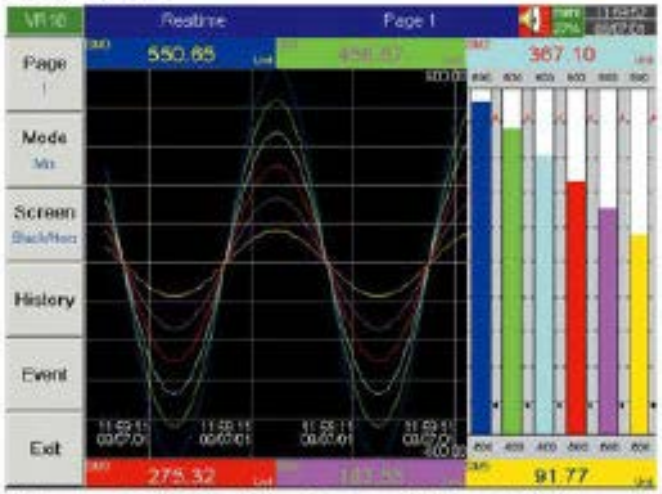
Input & Output Cards

Digital input | Digital output (6 alarms) | Analog input



Configure input by DIP switches

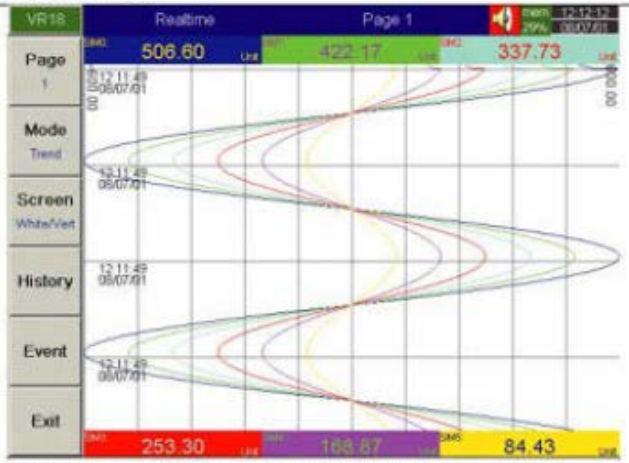
Mixed Mode



- View max. 6 mixed real time data trends horizontally.
- Display data in "Bars" and "Digits" together with mixed "Trends".
- Recognize data trends easily by different colors and tag names.
- Switch to other configured pages easily by "Page" function key.
- Display current "Time/Date" information.
- Remind the user of "Alarm" or "Memory Full".

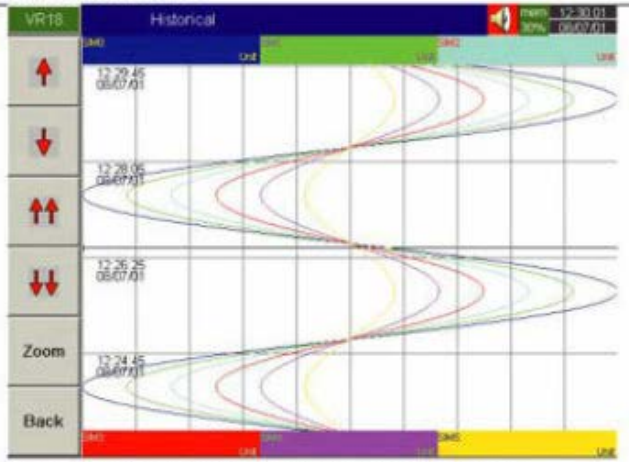
Display for real time data

Trend Mode



- View max. 6 real time data trends vertically.
- Recognize data trends easily by different colors and tag names.
- Switch to other configured pages easily by "Page" function key.
- Display current "Time/Date"information.
- Remind the user of "Alarm" or "Memory Full"

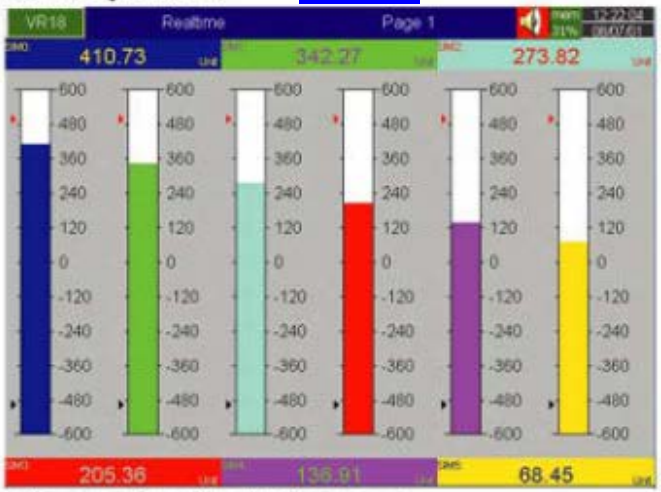
Historical Mode



- Display max. 6 sets of historical data simultaneously.
- View desired data section by "↑"&"↓" function keys.
- Access precise data value at a point selected by moving the "ruler".
- "Zoom" to expand/contract the display time span.
- View historical data trends and their respective data values.
- Recognize trends easily by different colors and individual tag names.

Display for real time data

Bar Graph Mode



- View max. 6 real time data in bar graphs.
- Scale individually by user in "configuration".
- Display data value and tag name in different colors together with each bar graph.
- Mark "Hi/Lo" alarm limits.
- Display current "Time/Date" information.
- Remind the user of the "Alarm" or "Memory Full".

Alarm List



- List all the alarm records clearly with useful information.
- Browse through the alarm list or "acknowledge" alarm easily by function keys on the vertical bar.
- Remind the user of the alarm status in different colors.

Display for real time data

Numerical Mode



- View max. 6 real time data in numbers.
- Display data value and tag name in different color.
- Mark "Hi/Lo" alarm limits.
- Display current "Time/Date" information.
- Remind the user of the "Alarm" or "Memory Full".

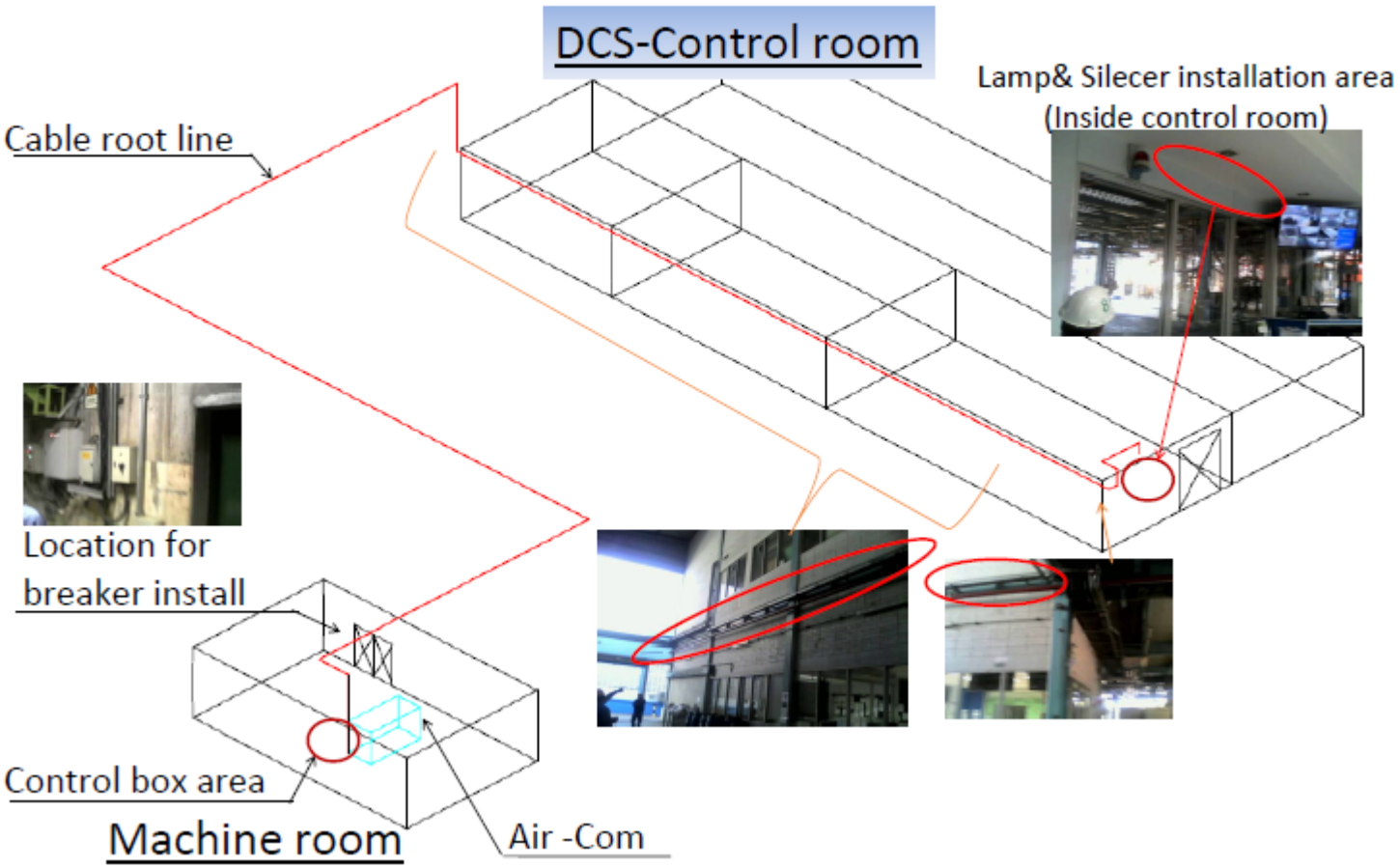
Configuration Mode



- Configure pen (input/output, pen name, event, job.....)
- Configure page (color, pen, decimal, pen width.....)
- Configure timer.
- Configure instrument (storage media, display, communication, time/date....)

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Cable Installation root line



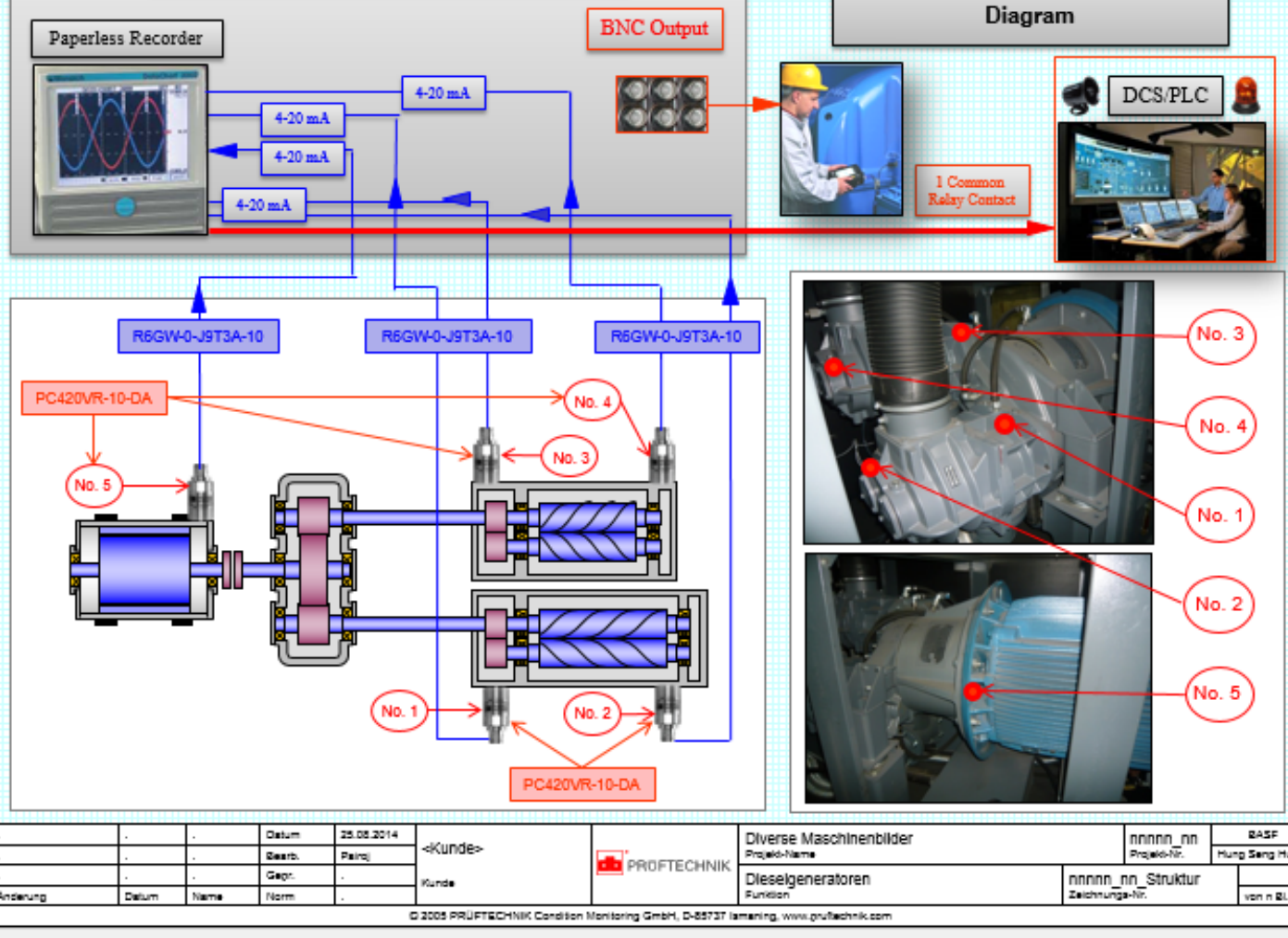
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SST Cabinet for Vibration Monitoring

Schematic Online Vibration Diagram



	.	.	Datum	25.08.2014	<Kunde>	PRÜFTECHNIK	Diverse Maschinenbilder	nnnnn_nn / BASF
	.	.	Bearb.	Palmq			Projekt-Name / Projekt-Nr.	Hung Seng Huad
	.	.	Gepr.	.			Dieselgeneratoren	nnnnn_nn_Struktur
Änderung	Datum	Name	Norm	.	Kunde		Funktion	Zeichnungs-Nr. / von n Bl.

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Most Valued Global Provider of Predictive Maintenance Solution

Display and complete field installation







