QUALITY ■ INNOVATION ■ FORESIGHT
Since its founding in 1915, quality, innovation and foresight have laid the foundations for Yokogawa to grow into the multi-billion Euro organisation it is today.
A COMMITMENT TO A SUSTAINABLE FUTURE

At the heart of our overall philosophy and aims, Yokogawa strives to carry out all of its activities in an environmentally friendly manner and provide environmentally friendly products to customers.

By focusing on solving the measurement challenges related to energy conservation, efficiency and sustainability, and providing high quality, highly reliable test and measurement solutions, we enable our customers to design, build and deploy next generation products that increase the quality of life, productivity and the efficient use of the world’s resources.

Yokogawa is a global organisation with over 19,000 employees. In Europe and Africa our 1,200 employees, located in a network of strategic locations, are complemented by our partners in a distributor network. From Finland to Portugal and from Ireland to South Africa, every customer receives the local help to support their investment in our green test and measurement solutions to enable them to be pioneers and innovators in their fields.

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A DLM6000 is not just an MSO. The ability to sample the 16 or 32 logic channels at the same rate as the 4 analogue ones together with features such as full state display and bus display functions, typically found on logic analysers, enable embedded systems and their timing to be comprehensively analysed.

A/D and D/A engineers can benefit from the ‘virtual A/D’ feature to get quick characterisation of circuit designs.

- 500 MHz and 1 GHz bandwidths
- 6.25 M points memory on every channel
- 5 GHz maximum sample rate on every channel

Yokogawa provides digital and mixed signal oscilloscopes with long flexible capture memories, which enable you to maintain high sample rates, and with extensive signal analysis capabilities. The integrated hardware enables serial buses, such as I²C, SPI, CAN, LIN and FlexRay, to be analysed in real time and multiple parameters to be measured without any reduction in waveform acquisition rate. Yokogawa scopes offer large clear displays, intuitive multi-language user interfaces, easy connectivity and especially, value for money.
DIGITAL STORAGE
OSCILLOSCOPES

DLM2000 – Mixed signal oscilloscopes
The DLM2000 combines long memory, fast waveform acquisition and up to 20,000 history memories. The input flexibility enables the 4th analogue channel to be converted to 8 logic inputs. They offer a wealth of measurement and analysis capabilities including digital filtering, serial bus analysis and histogram functions. These powerful compact oscilloscopes are the solution to the widest range of applications and budgets.
- 200 MHz, 350 MHz and 500 MHz bandwidths
- 2 or 4 analogue channels (or 3 analogue and 8 logic)
- Up to 2.5 GS/s sample rates
- Up to 125 M points memory

DL6000 - Digital oscilloscopes
With bandwidths up to 1.5GHz, these high performance oscilloscopes offer an unrivalled combination of high speed waveform acquisition and 2000 history memories which provides not only the ability to capture rare and abnormal signals but also to make comprehensive measurements on each one. The 4 maths channels, which can be user defined, deliver extra versatility for countless applications.
- 500 MHz, 1 GHz and 1.5 GHz bandwidths
- 5 or 10 GS/s sample rates
- 6.25 M points/channel
- Up to 2.5 million waveforms per second

DL7400 – 4 or 8 channel mixed signal oscilloscopes
With its unique 8 analogue channels plus 16 logic, the DL7400 allows precise trouble shooting and characterisation of digital circuits or multi-phase waveform analysis. It supports I2C, SPI, CAN and FlexRay serial bus analysis and the power analysis option is ideal for high frequency power semiconductor testing.
- 500 MHz bandwidth and 2.5 GS/s sample rate
- 4 or 8 analogue channels plus 16 logic
- 4 or 16 M points memory

software and accessories

Xviewer PC software for DL series
Virtual instrument control, file transfer, waveform viewer and analysis. Support for Ethernet, USB and GPIB interfaces. Comprehensive analysis includes 6 types of FFT calculation for up to 2 M datapoints.

CAN-DBC and logic symbol file editor software
Create and edit logic symbol definition files for use on the DLM6000 and SB5000, and CAN-DBC physical value definitions for the same models plus the DLM2000 and DL6000.
SB5000 – Vehicle serial bus analyser

The SB5000 is a serial bus analyser focused on in-vehicle serial bus protocols including FlexRay, CAN and LIN as well as providing UART, I2C and SPI trigger and analysis capabilities. It performs FlexRay signal integrity testing (SI Voting), eye-diagram analysis and bus driver electrical parameter measurement, and provides simultaneous analysis of analogue and logic channels, and simultaneous observation of any two serial buses.

- 4 analogue and 8 or 32 logic channels
- CAN-DBC and FIBEX database import
- Symbolic layer triggering, analysis and trending

All in one vehicle serial bus analysis

To improve safety, reliability and comfort, the rapid expansion in the amount of electronics inside a vehicle is expected to continue. The advanced control systems require new high speed communication technologies such as FlexRay, which offers data rates up to 10Mbit/sec, deterministic behaviour and guaranteed message latency and jitter. Yokogawa provides the physical layer analysis tools which enable the development and implementation of these buses and to test their conformity to their standards.
DIGITAL STORAGE
OSCILLOSCOPES

PBDH1000 – 1 GHz differential probe
- Compatible with the FlexRay standard
- 1 M ohm / 1.1 pF input
- +/- 25V differential voltage input

PBA1000, PBA1500, PBA2500 – Active probes
- 1 GHz, 1.5 GHz and 2.5 GHz bandwidths
- 100 k ohm / 0.9 pF input
- +/- 7 V dynamic range

PBC050, PBC100 – Current probes
- 30 A rms continuous measurement
- DC to 50 MHz or 100 MHz
- Direct readout of current values

PBL5000 – Low capacitance probe
- DC to 5 GHz
- 450 ohm or 950 ohm / 0.25 pF input
- 20 V rms maximum input
- DC blocking capacitor available

701919 – Probe stand and positioner
- Hands-free circuit board testing
- Heavy base and flexible arm (1.5 kg)
- For 8 mm to 13 mm diameter probes

701936 – Deskew signal source
- For use with DL/DLM power analysis option
- Maximises power measurement accuracy
- Accepts large jawed current probes

software and accessories

FIBEX and CAN databases
The free PC symbol editor software enables FIBEX and CAN DBC databases to be converted into physical (message, signal) values, which can then be displayed as trend graphs on the SB5000 or used as triggers etc.

Complete range of probes
A DSO is only as good as its probes. Our range includes active, differential, low capacitance, passive and current types, with frequency bandwidths to 2.5 GHz, and a stand for hands-free precision probing.
NEW

SCOPECORDERS

DL850 ScopeCorder

The new DL850 is the third generation of our highly successful family of ScopeCorders; versatile multi-channel instruments that combine the benefits of high-speed oscilloscopes and those of traditional data acquisition recorders in a single, portable instrument. It can record for long periods (e.g. 30 days or more) and also capture, and analyse, very fast transients.

The DL850 ScopeCorder is an ideal tool for measuring physical and electrical parameters in application sectors such as the automotive industry, mechatronics, transport, power electronics and alternative energy. A dedicated version for the automotive industry – the DL850V Vehicle Edition – includes a module for monitoring the CAN in-vehicle serial bus.

- High-speed sample rates up to 100Ms/s
- 2 to 128 analogue or 128 logic channels
- Isolated inputs up to 1000V

Multi-channel recording & analysis

Whether the signal is DC, AC, high voltage or millivolts, a wide selection of high resolution input modules, with individually isolated channels, allows a ScopeCorder to monitor and analyse a combination of different types of signals all in one synchronised measurement file. By directly connecting popular sensors like thermocouples, accelerometers, strain gauges and tachometers, all kinds of electrical and mechanical application, can be satisfied.
DL850V – ScopeCorder Vehicle Edition
The new DL850V introduces CAN bus monitoring functionality on the ScopeCorder, making it ideally suited for monitoring and analysis of actual physical data transmitted over the CAN bus.
- Compare CAN data with analogue sensor output
- Supports ISO-11898 High Speed CAN
- 60 CAN sub channels/ports (2 ports per module)

SL1400 - ScopeCorder
The SL1400 is ideal for manufacturing and maintenance applications where data needs to be quickly and easily recorded to an A4 chart recorder and/or memory.
- 2 to 16 analogue channels and 16 digital
- Chart recorder, XY recorder and memory modes
- Quick and easy user interface

SL1000 - High-speed data acquisition unit
The SL1000 is a PC-based high speed data acquisition unit and comes with intuitive logging and control software for quick start and easy set-up.
- Ethernet and USB interfaces
- 3.2 MByte/s data streaming rate (1.6 MS/s)
- Up to 128 channels by synchronising 8 SL1000 units

Input modules - for ScopeCorders and SL1000
- High Voltage 100 M\$/s, 12-bit, isolated *
- Voltage 10 M\$/s, 12-bit, isolated or non-isolated
- Voltage 1 M\$/s, 16-bit, isolated
- High Voltage 100 kS/s, 16-bit, isolated with RMS
- Voltage Scanner 200kS/s, 16-bit, 16 channel **
- Temperature & High precision voltage
- Strain gauge
- Acceleration
- Frequency
- Logic data **
- CAN bus monitor ***

* except for SL1400
** only for DL850 series
*** only for DL850V Vehicle Edition

software and accessories
Complete connectivity
Simply connect a USB stick to a DL850 and quickly store your measurement or setup files. The DL850 is equipped with USB, Ethernet and SD card interfaces. Options include built in hard disk, external ESATA interface for HDD connection and GPIB interface.

Xviewer - PC software
Display and analyse waveforms (using the “Viewer” function), perform file transfers and control a ScopeCorder and SL1000 remotely. The ScopeCorder advanced utility option allows pre-analysis of waveform data while the acquisition on the DL850 is still in progress.
Meet the world’s most stable and accurate power analyser, offering high bandwidth and is ideal for energy efficiency measurements. The WT3000 is certified for standby power testing according to IEC62301 and supports 50/60 Hz (10/12 cycles) harmonic and inter-harmonic measurement and analysis, as required by the IEC61000 standards. It can also measure and analyse voltage fluctuation/flicker according to IEC61000-3-3/-3-11. For the evaluation of motors and inverters, a special version is available that enables measurements of both electrical efficiency and electrical/mechanical efficiency.

- Basic power accuracy 0.02%
- USB and Ethernet interfaces
- Bandwidth DC, 0.1 Hz to 1 MHz

With the growing desire to make efficient use of energy, there is an increasing demand to make more accurate and reliable power measurements. Standby behaviour of transformers and highly distorted waveforms caused by inverters, motors, lighting circuits, power supplies, etc, all require stable and trustworthy power measurements. Yokogawa, the world’s largest manufacturer of power analysers and meters, provides a broad choice to satisfy all requirements. Each instrument carries a three-year warranty.
WT3000T – Precision power analyser - transformer test version
For measuring transformer losses under no-load conditions, according to IEC60076-8, the WT3000T offers excellent accuracy at low power factors.
- Basic power accuracy 0.02%
- Accuracy better than 0.6% at power factor 0.01
- Accredited calibration certificate at delivery

WT1800 – Precision power analyser
With up to 6 input elements the WT1800 is typically used for efficiency measurements on three-phase motors and drives, power supplies with multiple inputs/outputs and LED lighting applications etc. The WT1800 is a universal meter for power electronic and energy analysis.
- Basic power accuracy of 0.1%
- Input power frequency range of DC, 0.1Hz to 1 MHz
- Simultaneous power measurements and dual channel harmonic measurements up to the 500th order

PZ4000 – Power analyser
Combining high precision power measurement and deep memory oscilloscope technologies, the PZ4000 is a unique instrument suitable for the power analysis of unstable loads and fast transients.
- High speed sampling to 5 MS/s
- Input frequency range DC to 2 MHz
- Harmonic analysis (up to 500th order)

software and accessories

760122 WT-viewer
Display numerical and waveform data on a PC, perform harmonic analyses and use trend view to monitor power supply voltage fluctuations, changes in current consumption and other time-based variations.

761922 Harmonic software
This software enables harmonic analysis, voltage fluctuation and flicker measurement, compliant to IEC61000-3-12 & IEC 61000-3-3, to be carried out using measurement data from the WT3000.
WT500
Compact power analyser

Specially designed for renewable energy applications and with one, two or three phase inputs, the WT500 can, for example, measure DC input and AC output signals simultaneously and calculate input to output efficiency. The instrument easily displays numerical values, waveforms and trends. The WT500 is the ideal companion for evaluating the power conditioning technologies used in renewable energy applications, such as inverters, drives and transformers.

- Basic power accuracy of 0.1%
- Measurement of bought and sold watt hours.
- Frequency range: DC and 0.5 Hz to 100 kHz

Renewable energy

Global warming has led to a demand for more ‘green’ energy. Yokogawa is committed to the protection of the environment and eager to support both the development of renewable sources of energy and to optimise the efficiency of all energy usage with its broad range of power measurement and analysis solutions.
POWER ANALYSERS & METERS

WT210/WT230 – Digital power meters
The most widely used compact power meters in production facilities, easily measure voltage, current, phase angle, power factor and harmonics and are available with one, two or three-input elements.
- Basic power accuracy of 0.1%
- Input frequency range DC, 0.5 Hz to 100 kHz
- Certified for standby power testing IEC62301 (WT210)

CW120/CW240 – Clamp-on power meters
Small-sized and battery powered electric energy and power meters for power quality management.
- Ideal for field applications
- Energy consumption measurement
- Wiring check function minimises connection errors

Current sensors
External current sensors are required to measure currents above 50 Arms. The precision sensors from Hitec Power Protection and SIGNALTEC complement Yokogawa’s high precision power analysers to ensure that measurements from milliwatts to Megawatts are accurate and reliable.

MACC Plus - External current sensor
The accuracy and cost effectiveness of the MACCplus makes it a very popular sensor with a 1000:1 ratio and is suitable for currents up to 850 Apeak (600 Arms).

SC1000 - Zero-Flux™ split core current sensor
The unique split core principle enables it to be easily installed when power cables cannot be disconnected. Primary currents up to 1000 Apeak (700 Arms) can be measured.

CURACC - Zero-Flux™ external current sensor
When currents above 1000 Apeak (700 Arms) need to be measured, the CURACC offers high accuracy measurements up to 6000 Apeak (4240 Arms).

Calibration
Yokogawa Europe offers power calibration for meters and current sensors from its own laboratory. With exceptional capabilities at high frequencies and at low power factors, traceable calibration to international standards is available at DC and from 0.1 Hz to 100 kHz.
AQ6370 optical spectrum analysers are the most advanced on the market today. Covering wavelengths from 350 to 2400 nm they offer a unique combination of excellent performance, long term reliability and outstanding ease of operation. This makes them instruments of choice in not only demanding R&D applications, but also in many industrial process and quality control applications.

- High speed recording, and real-time analysis
- Compatible with single-mode and large core multi-mode fibres
- Simple operation & maintenance (incl. auto-calibration, mouse control or remote control)

In 2002 Yokogawa became a leading supplier of optical spectrum analysers following the acquisition of Ando Corporation. A commitment to supplying advanced functionality means that Yokogawa OSAs provide the solution to the widest range of R&D and industrial applications. These include the testing of visible light LEDs and lasers, the evaluation of densely spaced communication signals and infrared sensing of gases such as those attributed to global warming.
OPTICAL SPECTRUM ANALYSERS

AQ6373 – Short wavelength range OSA
- Uniquely covering the wavelength area 350 to 1200 nm
- Up to 20 pm resolution (10 pm between 400 and 470 nm)
- CIE 1931 XYZ colour analysis function
- Laser development, LED testing, colour analysis, etc.

AQ6370C – Mid wavelength range OSA
- AQ6370C-10 Standard version
- AQ6370C-20 High performance version
- Wavelength range 600 to 1700 nm
- Up to 20 pm resolution
- Auto-analysis of DWDM signals, true OSNR, Noise Figure, etc.
- Telecommunication signal and component testing

AQ6375 – Long wavelength range OSA
- Uniquely covering the wavelength area 1200 to 2400 nm
- Up to 50 pm resolution
- FBG manufacturing, molecular spectroscopy, gas sensing, etc.

software and accessories

Remote viewer software
The remote viewer software provides real-time monitoring of measurement results and complete instrument control from a remote PC (Ethernet). Using the same software, previously stored measurement results can also be analysed off-line.
AQ2200 Multi Application Test System

The modular platform of the AQ2200 offers a solution for many optical test applications. With the broad range of available plug-in modules, complex measurement setups are simplified, with a single-box solution. A single MATS frame can handle multiple applications simultaneously, allowing different users to control the modules thus saving cost.

The fast response of the instrument makes it an ideal tool in a manufacturing environment:
- 3 and 9-slot frames allow hot-swapping of modules
- Fast command processing and programming capabilities
- Ethernet, GP-IB and USB interfaces

Optical testing

Applications that are based on the propagation of light are entering our daily lives. Varying from applications in telecommunication, automotive, research, aerospace and consumer goods, each one requires its dedicated optical components to be thoroughly tested.

Yokogawa optical test systems offer the flexibility, speed and functionality to meet all requirements.
AQ2210 Series – Plug-in modules
A broad range of modules is offered to satisfy the extensive range of applications i.e. different laser diodes (tunable & fixed wavelength), sensor modules, attenuators, optical switch, 10 Gbit/s Bit Error Rate Tester (BERT) modules.

AQ4305 – Broadband (Halogen) Light source
- Up to 40 dBm output power
- Free-space output, FC/PC fibre connector
- High stability of +/- 0.05 dB
- GPIB control

SLDxx-Series – High-power, broadband Light source
The combination of a broad spectral range and a high power level is achieved by spectral combination of multiple super-luminescent diodes (SLD).
- 3 models with output spectrum ranges up to 1250 - 1650nm
- Total output power up to 16 dBm (40 mW)
- Spectral power density >-30dBm/nm
- Power stability +/- 20 mdB @ 15 min

TA720 – Time interval analyser
The TA720 is the de-facto standard for measuring jitter and analysing the performance of optical disks, including Blu-ray, in development and production environments, due to its outstanding sample rate, accuracy and resolution.
- 80 MS/s sampling rate, 25 ps resolution
- Simultaneous data-to-clock and data-to-data jitter measurement
- Inter-Symbol Interference analysis

software and accessories

Remote viewer software for the AQ2200
Viewer software for the AQ2200 provides real-time monitoring of measurement results and complete system control from a PC via Ethernet. Remote users can therefore easily access the instrument even when it is integrated into a production line or another machine.
The AQ7275 offers the industry’s best performance in terms of event separation capability and the shortest dead zone, less than 80cm, to enable multiple-event detection even when events are close to one another. Its high-speed operation optimises work efficiency, while automatic test functions enable installers to execute tests easily and reliably.

- 4-wavelengths, covering the requirements of core, metro and access networks
- increased work efficiency with fast power up time, high quality large screen colour LCD and one-button testing
- Multi core and PON measurements

The worldwide spread of broadband services has stimulated the installation of optical fibre in metro and access networks, which in turn has increased the demand for portable and reliable test equipment to aid the installation and maintenance of these networks.
**OPTICAL FIELD TESTERS**

**AQ1200 - Handheld optical fibre network test tool**
The AQ1200 OTDR is a compact and easy to use all-in-one optical fibre network testing tool. It includes USB ports for data storage, remote control and a fibre inspection probe as well as an optional OLTS function (light source and power meter up to +27 dBm), PING test function, and an optional visual fault locator. It incorporates a full auto mode for novice users and information tips for more experienced users:
- small and lightweight (1kg) with an easy-to-read 5.7 inch colour LCD display
- single mode 1310 nm and 1550 nm model for common applications including FTTH, enterprises and data centres
- 1625nm and 1650nm wavelength models for testing on live fibres
- Usable in combination with an AQ1100 OLTS for optical loss measurements

**AQ1100 - Optical loss test set**
The AQ1100 OLTS provides a power meter and light source(s) in one very portable unit for testing optical fibre networks such as FTTH (fibre to the home) and LAN (local area network). The optional PING function extends its capabilities and the USB port offers simple data storage. Choices of light source(s), including support for both single mode and multi mode fibres, and power meter, mean that the AQ1100 is a genuine Multi-field tester.
- power measurement up to +27 dBm
- PON (1490/1550 nm) parallel measurement
- optional visible light source for fault finding

**software and accessories**

**AQ7940 - Intermittent* disconnection monitoring software**
The AQ7940 is PC software for detecting and monitoring intermittent disconnections of an optical fibre connected to an OTDR, which is controlled via an Ethernet or USB interface. Disconnections could be caused by cold weather, animals or insects, for example, and may require quick action. Disconnections as short as 100 ms can be detected.

*Occurring occasionally or at regular or irregular intervals

**AQ7932 - OTDR emulation software**
This windows based software can analyse trace data obtained with AQ1200 and AQ7275 OTDRs on the PC. With its “Wizard” function it can easily generate tabular or waveform graph reports from the test data. Report data can also be output in Excel format.
The GS820 is a highly accurate multi channel voltage/current source measure unit that incorporates voltage generation/current generation as well as USB storage and an Ethernet interface. Since the two source channels and two measuring channels can be operated arbitrarily, almost all electrical characteristics can be evaluated.

- Dual sink and source operation: 7V and 3.2A or 18V and 1.2A
- Precise pulse generation (down to 100 µsec width with 0.1 µsec resolution)
- Drag & drop operation via USB

For general purpose standalone applications or as core components in a high speed test and measurement system, Yokogawa sources and signal generators are highly accurate and functional. The integration of source and measurement into a single unit greatly simplifies the test process. Semiconductor devices, sensors, displays or batteries etc can therefore be quickly and easily characterised.
Multi-channel capability
Use the external input/output connectors to source or generate multiple synchronised channels and make test systems scalable.

Full connectivity
As well as GPIB, the GS610 supports Ethernet, which allows remote control using a web browser, and FTP file transfers. By using USB, the memories in the instrument appear as storage devices on the PC.
ELECTRICAL TEST TOOLS

Digital multimeters

Yokogawa’s family of handheld DMMs is packed with advanced functionality, such as frequency, pulse width, duty cycle, temperature, capacitance and dB measurements. The TY series offers memory and USB communication functions, true RMS and mean value measurements, closed case calibration, a low pass filter and safety shutters. Features and functions like these allow the technician to test, troubleshoot and calibrate equipment, regardless of whether it is on the bench or in the field.

- **TY700-series**: 4.5 digit with 0.02% basic accuracy, 50000-count dual display and 51-segment bar graph
- **TY500-series**: 3.5 digit with 0.09% basic accuracy, 6000-count dual display and 31-segment bar graph
- **732 series**: 3.5 digit, 4300 count with mean value measurement
- **73101**: 3.5 digit, 4300 count pocket DMM

High performance hand-held instruments

Yokogawa supplies a wide range of field instruments including digital multimeters, insulation testers, clamp-on testers and thermometers. Designed for day-to-day field troubleshooting and maintenance of electrical systems, electrical power systems and associated equipment, Yokogawa products help our customers to analyse, troubleshoot and repair their systems to ensure maximum performance. For use in industry, R&D and education, our products are safe and reliable, and they comply with the required safety standards.
CA450 - Process multi-meter
The CA450 is a multi measuring test tool that not only offers the functionality of a true rms digital multi-meter but also those of a calibrator for electrical and process measurements.
- Simultaneous 24V loop power and mA measurement.
- HART mode setting with loop power (250Ω resistance)
- Transmitter simulation (sink) function

Calibrators
- CA11E: voltage/current calibrator with auto step (4 to 20 mA), 20 mA sink, and sweep function
- CA12E: temperature calibrator with selectable RTD, Pt100 or JPt100, and built-in RJC
- CA51: handy calibrator with simultaneous signal source and measurement, and many useful functions
- CA71: handy calibrator with RTD, TC (10 kinds), and online communication functions
- CA150: hand-held calibrator with simultaneous signal source and measurement, SINK, auto sweep, loop check, data save and many other useful functions

Insulation testers
- MY40 series: 4 range digital insulation testers with automatic discharge, memory, comparator and conductor resistance measurement
- MY10 series: single range analogue insulation testers with automatic discharge function, AC voltage measurement, and a protective covering
- 2406E series: 2 and 3 range analogue insulation testers with a discharge function and electro-luminescent backlight

Clamp-on testers
- CL series: clamp-on testers for AC currents, AC/DC currents and leakage currents; ranges 20 mA-1000 A; 40 mA-4000 A; 3 mA-1000 A
- Low pass filter (some models)
DATA ACQUISITION & LOGGING SYSTEMS

DAQMaster series
PC-based data acquisition systems

DAQMaster is the next generation of PC-based data acquisition. The MX100 offers a simple and flexible solution as a PC front-end system. The MW100 has the versatility of webserver-based remote monitoring and configuration, with many advanced network capabilities, and supports standalone use.

- modular design with various input/output modules
- standard Ethernet communication interface
- CompactFlash card memory support up to 2 GB

Network-based data acquisition systems

Yokogawa’s wide range of data acquisition and logging systems meets all kind of application requirements. Ethernet communication interfaces support fast and easy connection to LAN environments, enabling remote monitoring applications and centralised back up services. Standard software for the configuration of measurement devices and applications offer easy set-up and minimises preparation time. Advanced software packages can be used with Yokogawa recorders, data acquisition instruments and other measuring equipment to build an integrated PC-based data acquisition system.
MX100 - Modular data acquisition system
The MX100 gets you up and running very quickly with a highly reliable, PC based, real time data acquisition system that meets your requirements for R&D, durability testing, quality assurance, and facilities monitoring.
- high scanning speed: 10 or 100 ms
- wide range of I/O (mV, V, mA, TC, RTD, strain [DI, DO], V or mA output)
- scalable from 4 to 1200 channels

MW100 - Web-enabled datalogger
The web-enabled MW100 datalogging system allows you to use your standard web browser to access data from multiple locations, making it ideal for facility management and remote equipment monitoring.
- datalogging system for standalone and network applications
- advanced network functions including e-mail, FTP, SNTP, DHCP
- strong mathematical and event action functions for custom applications

MXLOGGER – Advanced software
High speed data acquisition software for use with MX100.
- supports up to 20 units with maximum 1200 channels
- up to 60 mathematical channels for customer computations
- flexible combination of trend displays, numerical displays and alarm displays

DAQWORX – Data acquisition software suite
integrates a wide range of recorders, dataloggers and measuring devices into one software solution for datalogging and monitoring.
- DAQLOGGER can handle up to 1600 channels per second
- DataBrowser lets you efficiently search files for desired data and display the results as waveforms
- AddObserver lets you create your own graphical user screens for remote monitoring

MCPS – Multi channel process system
Brings a complete software studio for data acquisition and evaluation.
- advanced alarm monitoring and logging functions
- powerful mathematical functions for on-line and off-line computations
- customer specific reports
- powerful custom scripting functions for performing complex data analysis, transfer data online to Excel or to send commands to devices and enabling control of automated test stands
MV1000/MV2000 Portable paperless recorders

Innovative paperless recorders for both stand alone and networked applications. FTP, webserver and e-mail functions provide seamless integration with intranet and internet environments. The quick setup menu enables simple and easy configuration of the recorder.

- Bright TFT colour display with wide viewing angle
- 4 to 48 universal input channels
- CF card and USB memory storage

Advanced and versatile recording technology

Yokogawa offers a wide range of paper and paperless recorders to meet all recording needs. Universal inputs accept voltage, thermocouple and RTD signals, and offer maximum flexibility over recording span and scaling of units. Battery options provide extra versatility when mains power is not available.
DX1000/2000 - DAQSTATIONS
Support more input channels and faster measurement speeds to handle more applications. Advanced networking functions include time synchronisation (SNTP) and automatic network setup (DHCP), and the possibility of communicating with power monitoring, controller subsystems, etc.
- 400 MB non-volatile memory
- up to 240 additional input channels via remote I/O
- USB interface (to load/save set-up files, connect keyboard)

DR130/DR230 - Darwin recorders
High performance and reliable desktop recorders that will measure data from 10 to 300 channels. Accepts a large variety of input types including voltage, temperature, pulse and strain, enabling the configuration of the optimum data acquisition environment.
- advanced, versatile 150/250 mm recorders
- 10 to 300 configurable input channels
- PC communication via GPIB, RS232 or Ethernet for set-up/datalogging

LR Series - Laboratory recorders
The LR series has a reputation based on outstanding reliability and performance. Electrical contacts and gears are eliminated. Data processing is digitised to facilitate PC-based data recording and analysis. A fast 135 Hz sampling rate makes it ideal for machine performance testing.
- 1 to 12 universal input channels (mV/V/TC/RTD)
- chart speeds from 10 mm/hour to 1200 mm/minute
- digital printing and analogue recording functions

XL120 (Datum-Y) - Portable datalogger
An 8 or 16-channel compact portable datalogger optimised for high performance and simple operation in field measurement environments. Provides wide-ranging functions and extensive communication capabilities for a multitude of acquisition applications. Measurement data can be stored on SD card, CF card and USB memory.
- compact and battery powered
- various communication interfaces: USB, Ethernet (IPv6)
- fast scan interval: to 100 ms

software and accessories

Solid state relays with high breakdown voltage (SSR)
Offer long operation life and accurate measurement.

USB flash drive
Can be used to transfer data and set-up files to your PC, or to attach an external keyboard for set-up and text entry.

Data Viewer software
Displays and prints data from measurement files. Data can be viewed in trend, digital and circular forms, and converted to ASCII, Excel or Lotus 1-2-3.
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