Transmitters
Prepared for the latest digital communication

Liquid & Gas
Highly reliable measurements for all industries

Field
Advanced diagnostics for all your industrial support

Network Solutions
Real-time monitoring for optimal network

Excellence in Process Measurement

Flowmeters
Offer Total Insight throughout the product & plant lifecycle

Your Single-Source Partner for Operational Excellence

Industry leaders striving for operational excellence will benefit from a new approach to plant automation. Yokogawa solutions help you to Measure, Control, and Optimize your processes, ensuring plant-wide integration. A worldwide network of committed experts supports your operations 24/7 for life-cycle optimization.

Optimize

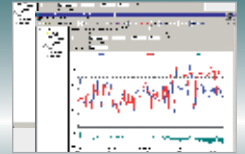## Production Management

Plant Information Management

Exaquantum

Exaquantum/Batch

Advanced Process Control

Exasmoc

Exarqe

Control

Production Control and Safety Management

Integrated Production Control & Safety Management

CENTUM VP

ProSafe-RS

Inherent Failsafe Logic Solver

ProSafe-SLS

(SCADA) Supervisory Control and Data Acquisition and Network-based Control

FAST/TOOLS

STARDOM

Measure

Sensing and Actuation

Flow

Pressure

Communication Protocols

HART HART

FOUNDATION fieldbus

PB PROFIBUS

B BRAIN

ISA100

M Modbus

Communications

Fieldmate Device Management Wizard

Communications

Converters & Field Indicators

Technical Partner's Products

Flow Primary Elements

Wireless Gas Detection

Transmitter Manifolds

Remote Seals

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Asset Management and Operational Efficienty

Opperation Efficiency Improvement			Integrated Asset Management
Exaplog	Exapilot	AAASuite	PRM: Plant Resource Manager

Data Acquisition and Control

Progarmmable Logic Controller	Paper and Paperless Recorders	Data Acquisition Equipment	Controllers
FA-M3R	GX10/GX20	GM10	YS and UTAdvanced Series

Liquid and Gas Analyzers

Multivariable	Temperature	Liquid Analyzer	Gas Analyzer	Advanced Analyzer
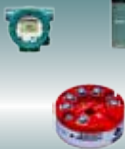
Analysis and Quality Control	Sampling Systems

Measuring Instruments

Process Calibrators	Process Multimeter

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Flow meters

Magnetic Flowmeter ADMAG AXF 4-wire
Predictive diagnostics
- Electrode adhesion detection reduced process downtime
- Replaceable electrode construction (option)
- Error messages and diagnostic instructions

User-oriented functionality
- Multi-line, large, backlit and full dot-matrix LCD
- Easy parameter set by infra-red switches
- Easy-to-install rotatable primary (converter)
- HART®, BRAIN, Foundation™ Fieldbus or Profibus

High performance
- Enhanced dual frequency excitation
- 1 µS/cm conductivity minimum
- 0.2 % reading accuracy (optional)
- High-Speed Pulse Output (up to 10,000 pps)

Enhanced Product Lineup
- PFA, Ceramic, Polyurethane liners
- Wide range of electrode materials
- From 2.5 mm to 2600mm
- 3A and sanitary connections are available

Magnetic Flowmeter ADMAG AXR 2-Wire
- Sizes from 25mm to 200mm diameter (1/2" to 8")
- Low power consumption
- Stable measurement under harsh flow conditions by dual frequency excitation
- High accuracy (0.5% of rate)
- Concise indications on full dot-matrix LCD
- Magnet switch operation without opening cover
- HART® or BRAIN
- FMEDA report for SIL2 & SIL3 capability

Magnetic Flowmeter ADMAG RXF 4-Wire
- Sizes from 15mm to 2000mm diameter (1/2" to 80")
- Accuracy 0.5% of Flowrate
- Hard rubber PTFE, LINATEX lines (EPOXY on request)
- Robust, IP67 or IP68 (submersible version)
- Up to PN100
- Potable water approved
- HART®, BRAIN, Foundation™ Fieldbus or Profibus

Vortex Flowmeter digitalYEWFLO
- Universal flowmeter for liquids, gas and steam
- Best "in-situ" performance available today; ±0.75% of flowrate
- Superior low flow stability through Spectral Signal Processing
- Highest temperature capability; -196°C to +450°C
- Highest pressure capability available; 2500 lbs (PN420)
- Optional temperature sensor embedded in shedder bar inferring (saturated) steam flow
- HART®, BRAIN or Foundation™ Fieldbus

Multivariable Transmitter DPharp EJX930A/EJX910A
- Multivariable transmitter to measure differential pressure, static pressure, temperature to calculate dynamically compensated mass flow
- 1.0% mass flow rate accuracy
- Dual output capability; analog 4-20 mA and pulse
- PC-based FSA120 EJX-MV Configuration DTM supports the configuration for calculating mass flow
- HART®, BRAIN, Foundation™ Fieldbus, Modbus
- Conformance to ISO 5167
- Integrated temperature sensor for mass flow

Averaging Pitot Tube
- Senses and averages the natural differential pressure created by the velocity profile
- Improved accuracy and turndown, superior signal stability
- Eliminates clogging of sensor ports
- Lower drag force and increased structural strength
- Lower energy costs

Compact Orifice Plate
- Modular and proven concept
- No moving parts, extremely rugged and stable
- Easy to install without impulse piping
- Sizes from 1/2" to 4" (standard), other sizes on request

Essential & Ultimate Transmitter
- 2 specialized transmitters with common platform
- Wizard for easy setup and guidance through the main configuration
- Hart, Foundation Fieldbus, Modbus RTU
- In-line concentration measurement (Ultimate)
- Universal power supply
- Data mobility by microSD card for easy data transfer & remote service
- Event Management NE107 & SIL compliance
- "Tube Health Check" & "Total Health Check" for in-line meter verification
- "Features On Demand" for easy expansion of functions
- Dynamic Pressure compensation
- In-line concentration measurement
- Net Oil Computing acc. API standard

Coriolis Flowmeter Rotamass Prime
- Versatility with lowest cost of ownership
- Max Flow Rate: 76 t/h and Process Connection: Up to 80mm (3")
- Typical sizes: DN15, DN25, DN40, DN50, DN65, DN80
- High flat spec accuracy for wide range of standard applications
- Minimized changeover times by compact and drainable design
- Continuous in-line density and concentration measurement for product quality control

Coriolis Flowmeter Rotamass Supreme
- Superior performance under demanding conditions
- Max Flow Rate: 170 t/h and Process Connection: Up to 150mm (6")
- Typical line sizes: DN15, DN25, DN40, DN50, DN65, DN80, DN100, DN125
- Smart Power Management ensures optimum performance under extreme aeration conditions
- Optimum decoupling of core measuring element from external influences by proven box-in-box design
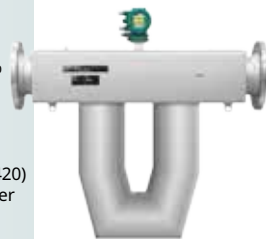
Coriolis Flowmeter Rotamass Nano
- For low flow applications
- Typical line sizes: DN15, DN25, DN40.
- Max Flow Rate: 1.5 t/h and Process Connection: Up to 40mm (1.5")
- Smallest dual bent tube for highly accurate measurement at lowest flows.

Coriolis Flowmeter Rotamass Giga
- Flexible installation for high flow applications
- Typical line sizes: DN100, DN125, DN150, DN200
- Max Flow Rate: 600 t/h and Process Connection: Up to 200mm (8")
- High flat spec accuracy meeting typical oil and gas industry requirements

Coriolis Flowmeter Rotamass Hygienic
- For food & beverage, biotechnology and pharmaceutical utility
- Typical sizes: DN15, DN25, DN40, DN50, DN65, DN80
- Max Flow Rate: 76 t/h and Process Connection: Up to 80mm (3")
- Low flow velocity and low excitation frequency
- Wide range of hygienic process connections

Coriolis Flowmeter Rotamass Intense
- For high pressure applications
- Typical line sizes: 1/2", 1", 2"
- Max Flow Rate: 50 t/h and Process Connection: Up to 50mm (2")
- Pressure Rating: Up to ASME flange class 1500
- Dynamic pressure compensation

Variable Area Flowmeter ROTAMETER™
- Rugged and durable, all 316SS and glass designs
- Low friction, hysteresis free local indication
- Linearised current output with float blocking detection
- Remote configuration using the HART® protocol
- Suitable for use in Zone 1 and 2 hazardous locations
- Digital communication through HART® or Profibus PA
- SIL assessment by FMEDA report
- Available with ASME B31.3 compliance

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Field Communication

FieldMate Versatile Device Management Wizard
• PC-based field device management tool
• Multi-vendor, multi-protocol support - Foundation™ Fieldbus, HART®, PROFIBUS, BRAIN and ISA100.11a
• Automatic device data acquisition upon connection to a device or a segment (Segment Viewer)
• Easy acquisition and diagnosis of device status (Device Viewer)
• Support device database and history information
• Multi-parameter set-up (Parameter Manager)

HART - FieldMate Communicator YHC 5150X
• Intrinsic Safe Handheld which allows the user to download directly from the manufacturer in the original DD's native format, including registered or unregistered devices

BRAIN - Communicator BT200
• Easy to use for setting, changing, displaying, parameters for transmitters with BRAIN communication protocol

Segment Indicator for Foundation™ Fieldbus FVX110
• 2 wire segment powered indicator
• Displays up to 16 process values
• Link master capability & Software download function
• Easy access to target display (back lighted)
• Variety of function blocks supported

MLX Loop Indicator
• "Break Out" up to three analog signals proportional to a HART®
• High/Low process and loop diagnostic alarms
• Sets up as a primary or secondary master, or in "Listen" mode
• Large, 5-digit display
• Isolated output channels

Pressure

Manifold and Direct Mounted Manifold
• 3, 5-Valve manifolds for differential pressure and 2-valve in-line manifolds for gauge pressure
• Low profile for the bottom connection available
• Compact design with fewer potential leak points
• Ease of installation and large number of options
• Direct mounted manifolds are connected and supported at the differential pressure taps
• Hook-up for Enclosure solutions, heat tracing

Pressure & Differential Transmitter DPharp EJX & EJA Series
• Ultra-high performance, 0.04% (opt. 0.025%) accuracy
• 200 to 1 turndown
• Multi-sensing (Differential pressure + Static pressure)
• Fast response 90 ms
• Multi-functional indicator (optional)
• Alarm output for measured and static pressure (opt.)
• Digital communication through HART®, BRAIN, Foundation™ Fieldbus
• SIL2 certified by TÜV IT
• Custody transfer approved
• ISA100 wireless models available

Diaphragm Seals for Differential Pressure and Pressure Transmitter
• Diaphragm seal to combine with EJA and EJX series pressure and differential pressure transmitters
• Intended for corrosive, contaminated, hot or viscous pressure media
• Various process connections, wetted materials and pressure ranges are available

Level Transmitter Digital Remote Sensor (DRS)
• Flange-mounting, compact differential pressure transmitter
• Direct mounting to a tank
• Small flange size model also available
• Two pressure sensors, master (high pressure side) and slave (low pressure side)
• Monitoring or parameter, remotely done via HART communication.

Temperature

Temperature Transmitter YTA610 & YTA710
• A highly accurate temperature transmitter with BRAIN, HART® or Foundation™ Fieldbus communication
• Sensor type is selectable from 12 Thermocouples, 6 RTDs, ohms, or DC milivolts
• Dual compartment housing for harsh environments
• Dual input bumpless change over
• Integral indicator with both a digital readout and percent bargraph
• Choice of the latest digital communication protocols
• Improved self-diagnostics and sensor diagnostic functions
• Local parameter settings
• SIL3 Capable

Wireless Multi-Input Temperature Transmitter YTMX580
• Accept inputs from up to 8 channels
• Perfect for multipoint measurement applications
• High performance measurements with intervals as fast as 1 seconds (3 channels) or 2 seconds (8 channels)

Wireless Temperature Transmitter YTA510
• The high performance temperature transmitter YTA510 accepts Thermocouple, RTD, ohms or DC mill volt inputs

Temperature Transmitter YTA50 & YTA70
• A head mount temperature transmitter with BRAIN, HART® communication
• Dimension conforming to DIN form B standard
• Sensor type is selectable from 12 Thermocouples, 2 RTDs, ohms, or DC milivolts
• Isolated Input/Output signals
• SIL assessment by FMEDA report (YTA70)

Industrial Temperature Assemblies
• Pt100 RTD: 3-, 4-wire, single or dual configuration
• Thermocouple: Type J, K, E, T , 2-(dual), 4-(single) wire with single or dual configuration
• Thermowell style: tapered, straight or stepped
• Complete quality assurance program of NDT's (Diepenetrant inspection, X-ray and Ultrasonic testing)
• Single or duplex sensor configurations available
• YTA series can be installed onto the industrial assembly or within the termination head
• Unique explosive environment approvals allow transmitters installation on-site

Fiber Optic Distributed Temperature Sensing (DTSX)
• Measure up to 50 km distance using fibre optic cable
• Operating Temperature range from -200 C till 800 C
• Top-level Resolution of 0.03 C
• Compact modular Industrial design
• Certified for Zone 2
• Low power system
• Optional 2, 4 & 16 channel optical switch
• Temperature profiles easy integrated in FAST/TOOLS
• Direct I/O capability
• Ethernet and Serial ModBus Communication
• Embedded Alarm Management Tool

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Wireless

Field Wireless System
- Pressure Transmitter DPharp EJX B Series
- Field Wireless Gateway
- Field Wireless access point YFGW510
- ISA100.11A Protocol

Control proof
- Quick update time of 1 second
- Redundant star network for control applications
- AES 128 bit security mechanism by NIST approval
- Transmission rate of 250 kbps with wireless frequency bandwidth: 2400 to 2483.5 MHz

Power proof
- Unique battery housing compartment and battery pack design for devices
- Battery pack design exchangeable in hazardous area and replaceable internal cells

Future proof
- IPv6-based wireless protocol for expandability of existing plant network architecture in the future
- Upper communication protocol: Modbus/TCP & OPC

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HART® is a trademark of the HART® Foundation.
Foundation™ Fieldbus is a trademark of Fieldbus Foundation. PROFIBUS PA is a trademark of PROFIBUS PA.

Field Wireless Multi-Function Module FN510
- Analog input, digital input/output or pulse input are selectable

Field Wireless Multi-Protocol Module FN310
- HART or Modbus communication protocol can be selected
- Various wired legacy device required by plant operation can be converted into a wireless device as required
- Direct support of SENCOM communication for analytical sensors

Field Wireless Communication Module FN110
- Built-in high-performance wireless communication function module has excellent radio sensitivity and low power consumption, provides a stable wireless communication platform with excellent power saving capabilities

Gas Detector GS01
- The hydrocarbon gas detector that operates truly wireless
- Based on innovative MEMS technology the GS01 enables battery-powered gas detection with wireless communication in demanding industrial applications

Liquid Analyzer

pH/ORP/Conductivity/Inductive Conductivity EXA450 series Transmitter
- Unique HMI(Human Machine Interface) with menu structure and high resolution graphical display with touch screen
- Process data trending up to 2 weeks
- Interactive display with choice out of 6 languages
- 4-wire transmitter

pH/ORP Electrodes & Fittings
- FU20 4-in-1 wide body electrode best sensor for most applications
- FU20-FTS differential pH sensor with virtual no maintenance
- SC25 pH sensor with proven high degree of stability
- FU24 with integrated automatic pressure compensation
- PR10 retractable fitting, one model for all parameters

pH/ORP/Conductivity/Inductive Conductivity/ Dissolved Oxygen FLXA21 and FLXA202
- 2-wire Modular Transmitter
- Menu structure & graphical display with touch screen
- Redundant system configuration possible
- One or two sensor modules can be installed
- Digital communication through HART®

Conductivity Sensors & Fittings
- SC4A conductivity sensor for low conductivity and Pharma applications
- SX42 high temperature (up to 250°C) and high pressure (up to 40 bar) conductivity sensor
- SC42 electrode with 2- and 4-electrode design with a wide range of sensors to suit most applications
- Easy mounting, servicing and installation by using a wide range of installation options and materials

PH71 / PH72 / SC72 Pocket Meters
- "One-touch" auto-calibration
- Long term reliability
- Auto power off function
- Water resistant and durable
- Easy cleaning
- Manual or automatic temperature compensation
- Including Redox (PH71)

Inductive Conductivity Sensors & Fittings
- Inductive Conductivity technique
- Elimination of fouling and polarization errors
- Maintenance free construction
- Wide conductivity measuring range

SENCOM SMART pH Sensors
- Reduced maintenance time
- Off-line calibration minimizing process impact
- Easier asset management
- Insensitive for environmental conditions
- Monitoring extreme usage conditions

Dissolved Oxygen Sensors & Fittings
- Visiferm Optical SMART DO measurement in a 12mm design
- DO30G sensor, good long term stability and fast response time
- Oxyferm and Oxygold ppm and ppb DO sensors ruggedized design
- PB30 floating ball holder ensures minimum user maintenance

Gas Analyzer

Tunable Diode Laser Spectrometer TDLS8000
- SIL2 TruePeak combined with smart laser technology
- Intuitive touchscreen HMI
- Display on both laser and sensor unit for one-man installation
- HART and Modbus TCP communications standard
- 8-stage auto-gain adapts to difficult applications
- Fully field repairable with 50 days of data and spectra storage
- Area classification Zone2/Div2 or Zone1/Div1

OX400 Low Concentration (ppm) Zirconia Oxygen Analyzer:
- Long life, high reliability Zirconia sensor
- Wide range from 0-10 ppm to 0-100 vol% O_2
- Multi-selector function allowing measurement up to three streams
- Pump or aspirator sampling

In Situ Zirconia Oxygen Analyzer ZR402G / ZR22/ ZR202
- Long-life, high-reliability Zirconia sensor
- LCD touch-screen for ease of operation
- The integrated type integrates both probe and converter, to reduce wiring, piping, and installation costs
- Explosionproof approval
- Remote maintenance using HART® communication

Oxygen Analyzer Averaging Converter AV550G
- Handles input of up to 8 oxygen detectors
- "Hot swap" of channel cards so the analyzer remains on line while maintenance is performed
- Full color touch screen for ease of operation
- Multiple display modes shows average data, single detector or all detector gas concentrations
- Remote maintenance using HART® or Foundation™ Fieldbus communications

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Analyzer Solutions

Process Gas Chromatographv GC8000
- The GC8000 has a built-in 12-inch colour touchscreen display that simplifies operations. At the touch of the screen, the technician can access all of the analytical parameters and measurement results; displayed in easy-to-understand graphical colour screens.
- GC8000 analytical possibilities are greatly expanded through the multi-oven capability of the analyser. GC8000 is recognized for its reliable and precise performance.
- GC Applications are executed in the Netherlands, Japan, China, USA and Singapore.

Analyzer Bus System
Comprehensive and Centrally located remote maintenance of Analyzers
- Maximal 254 analysers on one network
- Connection to FCS; direct by Modbus TCP/IP, modbus RTU, OPC
- Centralized; analyser operation, view & maintenance
- Storage of Analyser results
- Interface Unit; reduce wiring of Third party analysers

Analyzer Systems
Providing a one-stop solution for: comprehensive services starts from front-end engineering design, project management and in-house execution and full life-cycle support.
- Process sample conditioning Systems
- Analyser houses/cabinets
- Services

Advanced Reflux Sampler
- Self-acting temperature controller, no electric power supply required
- Dual 360º Cooling coils
- Sample outlet over temperature shut-off valve
- High sample flow rate reduce lag-time

Network Data Acquisition & Control Solutions

Paperless Videographic Recorder FX1000
- Up to 12 universal input channels
- 5.7" TFT Colour LCD Display with wide viewing angle
- Network functions: E-mail, FTP, web service
- Dust-proof and water-proof front panel (IP65)
- Power measurement option
- Standard PC software for configuration and historical data viewing

Paperless Videographic Recorder Daqstation DXAdvanced DX1000/DX2000
- Up to 12 or 48 Universal input channels
- Connects to DAQMASTER MW100 via Modbus/TCP for up to 240 external channels
- Standard-equipped with an Ethernet port
- Sends a variety of informative e-mail messages
- Compliant with FDA 21 CFR Part 11: login function/audit trail/electronic signature function (/AS1 option)

SMARTDAC+ GX10/GX20, GP10/GP20
- Multi-touch interface, hand-writing function
- Modular universal I/O, easy to extend, up to 450 channels
- Compliant with FDA 21 CFR part11: login function, audit trail, electronic record/signature function (/AS option)
- Webserver for real-time monitoring and configuration
- Network security functions

SMARTDAC+ Wireless Model GX20W
- Paperless recorder that includes a gateway function for ISA100 field wireless systems
- communication to max 50 wireless devices
- max 100 analogue inputs for wired devices
- max 200 mathematical channels (option)
- advanced network functions (FTP, webserver, SNTP, SMTP)

SMARTDAC+ GM data logger and Control Unit
- Universal inputs, up to 1000 channels
- Supports SD card for local data storage
- Modbus RTU/TCP for easy integration
- Webserver and Bluetooth interface for real-time monitoring and configuration
- Network security functions
- Advanced mathematical functions
- PID and logic Control Junction

Data logging Software GA10
- On-line monitor and record up to 2000 channels and 2000 math channels
- Up to 50 Custom Displays with interactive control elements
- Communication to Yokogawa data acquisition systems and controllers
- Modbus/TCP communication to third party devices
- Remote access for more than 32 client PC's

STARDOM
- Dual-redundant-configurable hybrid PLC / Intelligent RTU
- Reliable hardware & low power consumption controller
- Wide support of field networks e.g TCP/IP, FOUNDATION™ Fieldbus, Hart, ModBus and DNP3
- Efficiency Engineering by IEC61131-3 programming languages and libraries
- Seamless integration with FAST/TOOLS Web based SCADA solutions

IT Machine PLC FA-M3R
- Ultra-fast Processing Speed 100,000 steps of ladder program scanned per 1ms and minimum scan time of 100μs
- Postcard-size Controller
- Compact 147(W) 100(H) 88(D) mm size handles 192 I/O points
- Universal I/O range achievable with one PLC. Controls up to 8,192 points and contain devices of up to 344K words per system

Single-loop Process Controller YS1000
- Uses a full dot matrix color LCD display
- Designed with a lightweight, compact case
- Graphical programming tool for reduction of engineering costs
- Dual CPU and hard manual control as the control output backup function
- Ethernet (Modbus/TCP), Modbus, expansion I/O, and peer-to-peer communication

UTAdvanced Digital Indicating Controllers
- Advanced Control. PID Control — 8 built-in Control Functions / Algorithms. Ladder Sequence Control
- Simplicity. Bright & Easy to read Active Color LCD Display. Multiple language support
- Networking: Ethernet (Modbus / TCP), RS485
- Reliability: IP56
- DIN rail mount version without display available

Compact Signal Conditioner JUXTA VJ
- Compact design for space saving
- Universal input to accept either a thermocouple, RTD or mV signal
- Second isolated current or voltage (pulse) output available
- Modbus (RS-485) communication along with analog output signal from a single unit.
- PC-based parameters setting tool available

Chart Recorders

Chart Recorder Intelligent Industrial Recorders µR10000/µR20000
• 100 mm high reliable recorder with 1, 2, 3, 4-pen and 6-dot models (µR10000)
• 180 mm high reliable recorder with 1, 2, 3, 4-pen and 6, 12, 18, 24-dot models (µR20000)
• Large, VFD full dot matrix display
• Displays a variety of screens for site monitoring
• SD Card support for local back up

Chart Recorder SR10000
• Compact and reliable 100mm chart recorder
• Up to 4-pen and 6-dot models
• Configurable inputs
• Large digital display
• Supports Ethernet and RS422/485 comm. interface

Test & Measurement

Process multimeter CA450
• The ideal all-in-one tool for the installation and maintenance of process instrumentation such as transmitters, flow meters, signal conditioners and valve positioners
• 2-wire transmitter simulator (20 mA SINK)
• Loop check – Simultaneously provides 24V transmitter power and precisely measures DC mA signals
• HART mode setting with loop power (250 Ω resistance)
• Step or sweep response test of valve positioners

Handheld multifunction calibrators CA51 and CA71
• Source: DCV, DCA, Resistance, RTD, TC, Frequency, Pulse
• Measure: DCV, DCA, ACV, Resistance, Frequency, Pulse (also RTD, TC on CA71)
• Simultaneous source and measure, Automatic step and sweep
• PC communication interface (CA71)

CA150 - Handheld multifunction process calibrator
• Source: DCV, DCA, Resistance, RTD, TC, Frequency, Pulse
• Measure: DCV, DCA, Resistance, RTD, TC, Frequency, Pulse
• Simultaneous source and measure, Automatic step and sweep
• 24V transmitter loop power supply and current measurement (SINK)
• Internal memory for data and settings

CA300 series – Process calibrators
• CA310 Volt mA calibrator: with loop checking and transmitter simulation (20 mA sink)
• CA320 thermocouple calibrator: simulates 16 types of TC with voltage source and measurement
• CA330 RTD calibrator: with resistance source and measurement

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