



# Selection Guide

## Process Test Tools Vol.4

### Pressure Calibrator

#### New Standard for Field Calibration.

- Realized the highest accuracy as a portable class!  
Basic accuracy Pressure (Measure): 0.01% rdg  
Current/Voltage (Measure/Source): 0.015% rdg
- Realized the highest resolution and wide range for this class:  
200.000 counts (200 kPa)
- Embeds the calibration procedure of pressure transmitters and pressure switch.
- Sustain in severe environments by tough body with IP54 (Dust proof and Drip proof).



**CA700**

### Versatile Device Management Wizard

#### One tool for All

- Supports major industry-standard communication protocols.  
(HART®, BRAIN, FOUNDATION™ fieldbus H1, ISA100.11a, PROFIBUS, Modbus)
- Excellent operability and portability by Tablet PC.
- Centralized management of various types of device-related information.
- Automatic creation of device reports.

Definitely give "free trial edition" a try!  
<http://www.yokogawa.com/fieldmate/>



**FieldMate** **NEW**

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### Volt mA Calibrator

#### Specialized high performance model for Loop Inspection!

- Basic accuracy: 0.015% (Source & Meas. accuracy of Voltage mA)
- 20 mA SIMULATE (SINK) function.
- Simultaneously supplies 24 V loop power and measure output signal with high accuracy.
- HART/BRAIN comm. resistance (250 Ω) embedded.
- Sub display displays span% of the source value.
- Corresponds to various types of source pattern (Step sweep/Linear sweep/Manual step/Span check).
- Corresponds to 2 WAY Power supply (AA alkaline batteries or AC Adapter).



**CA310** **NEW**

### TC Calibrator

#### Specialized high performance model for TC simulate!

- Basic accuracy: 0.5°C (Typical of TC type K)  
\*Including accuracy of internal RJC
- Corresponds to 16 types of TC standard (TC type: K, E, J, T, N, L, U, R, S, B, C, XK, A, D, G, Platinel II; Standard type: IEC/DIN/ASTM/GOST R/JIS).
- Sub display displays actual value of voltage source or span%.
- Corresponds to various types of source pattern (Step sweep/Linear sweep/Manual step/Span check).
- Corresponds to other TC types by mV source function.
- Measures TC sensor output as a thermometer.
- Corresponds to 2 WAY Power supply (AA alkaline batteries or AC Adapter).



**CA320** **NEW**

### RTD Calibrator

#### Specialized high performance model for RTD simulate!

- Basic accuracy: 0.3°C (Typical of PT100)
- Corresponds to 14 types of RTD standard (RTD type: Pt100, Pt200, Pt500, Pt1000, Cu10, Ni120, Pt50, Pt50G, Pt100G, Cu50M, Cu100M; Standard type: IEC/GOST R/JIS).
- Sub display displays value of resistance source and span%.
- Corresponds to various types of source pattern (Step sweep/Linear sweep/Manual step/Span check).
- Corresponds to 2, 3, 4 wire. Realizes RTD simulation.
- Measures output of RTD sensor as a thermometer.
- Corresponds to 2 WAY Power supply (AA alkaline batteries or AC Adapter).



**CA330** **NEW**

### Handy Multifunction Calibrator

#### All in one type, highly accurate multifunction calibrator!

- Highly accurate within 0.02% of DC voltage range for source and measurement.
- Source and measurement simultaneous functions:  
DCV/DCmA/Ω/TC/RTD/Hz/PULSE
- Simultaneous 24 V loop power and mA measurement.
- Sweep functions (step/linear/program sweep).
- Up to 100 data memory function.
- 3 WAY Power supply:  
6AA size Alkaline batteries/  
AC adapter (sold separately)/  
Dedicated NiMH battery (sold separately)



**CA150**

LF maintenance-EN

<http://tmi.yokogawa.com/>



# Selection Guide

## Process Test Tools Vol.4

### Power Quality Analyzer

**Realizes Power Consumption and Power Quality Testing in one unit!**

- Corresponds to 1P2W to 3P4W, Voltage 600 V/1000 V, Current 2 A to 3000 A.
- Measures and logs Power/Energy/Demand.
- Measures and logs malfunction of power supply: (Voltage Swell/ Dip/Interruption/Transient/Inrush current/Harmonics/Flicker etc.)
- Start Navigaion function supports wirings and settings.
- Including PC software to analyze data and manage various settings.



**CW500** **NEW**

### Handy Multifunction Calibrator

**Low-cost high-performance model!**  
**Best-selling model of the field calibrator.**

- Small/compact, lightweight, high-performance and Low-cost.
- Source and measurement simultaneous function:  
DCV/DCmA/Ω/TC/RTD/Hz/PULSE
- Incorporates rotary switches for simple handling.
- Divided output (n/m) function/auto-step/sweep function.
- 2WAY Power supply:  
4 AA Alkaline batteries, or special AC adapter (sold separately)



**CA71**

### Process Multimeter

**Loop Power and 4 to 20 mA output function in a DMM!**

- Simultaneous 24 V loop power and mA measurement.
- HART/BRAIN mode setting with loop power (adds 250 Ω resistance internally).
- 4 to 20 mA span/step/auto-step/sweep output.
- SIMULATE (SINK) function simulate transmitters.
- 6000 counts, DMM function.
- Compliant standards: EN61010-1 CATIV 600 V CATIII 1000 V.



**CA450**

### Clamp-on Process Meter

**Measure 4 to 20 mA signals without breaking the loop!**

- 0.2% accuracy, 0.01 mA resolution.
- Dual display.
- LED torch light, backlight display.
- Broad 6 mm diameter conductor.
- Analog output available.



**CL420**

### Low pressure hand pump kit

**Extremely compact high performance hand pump.**

- Pressure range: -83 to 700 kPa
- Best one with smooth pressurize function and low internal leak.
- Best for tuning pressure at low range.
- Pocket size compact hand-pump.



**91050**

### Pneumatic hand pump kit

**Wide range pressurable high performance hand pump!**

- Low to middle pressure range:  
-83 to 4000 kPa
- Even stroke pressurization and one hand fine tuning realizes smooth and simple operation.
- Low internal leak.



**91055**

### Hydraulic type hand pump kit

**Capable to pressurize up to 70 MPa.**

- Pressure range: 0 to 70 MPa
- Capable to pressurize by light grip operation up to high range.
- Best one with smooth pressurize function and low internal leak.



**91060**

### Decade Resistance Boxes

**Ideal for calibration of resistance thermometers!**

- High accuracy and high resolution.
- High reproducibility.
- Resistance range:  
0.100 to 1111.210 Ω



**279301**

### Clamp-on Tester

**Smaller clamp for AC/DC current!**

- Measure up to 300 A (AC/DC).
- Measurable conductor max. 24 mm diameter.
- Lightweight & compact design.



**CL220**

**vigilantplant.**<sup>®</sup>

SEE  
CLEARLY

KNOW  
IN ADVANCE

ACT  
WITH AGILITY

The clear path to operational excellence

YOKOGAWA METERS & INSTRUMENTS CORPORATION

Global Sales Dept. /Phone: +81-422-52-6237 Facsimile: +81-422-52-6462 E-mail: tm@cs.jp.yokogawa.com

YOKOGAWA CORPORATION OF AMERICA  
YOKOGAWA EUROPE B.V.  
YOKOGAWA SHANGHAI TRADING CO., LTD.  
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YOKOGAWA ELECTRIC CIS LTD.  
YOKOGAWA AMERICA DO SUL LTDA.  
YOKOGAWA MIDDLE EAST & AFRICA B.S.C(c)

Phone: +1-770-253-7000  
Phone: +31-88-4641000  
Phone: +86-21-6239-6363  
Phone: +82-2-2628-3810  
Phone: +65-6241-9933  
Phone: +91-80-4158-6000  
Phone: +7-495-737-7868  
Phone: +55-11-5681-2400  
Phone: +973-17-358100

Facsimile: +1-770-254-0928  
Facsimile: +31-88-4641111  
Facsimile: +86-21-6880-4987  
Facsimile: +82-2-2628-3899  
Facsimile: +65-6241-2606  
Facsimile: +91-80-2852-1441  
Facsimile: +7-495-737-7869  
Facsimile: +55-11-5681-4434  
Facsimile: +973-17-336100

VigilantPlant is Yokogawa's automation concept for safe, reliable, and profitable plant operations. VigilantPlant aims to enable an ongoing state of Operational Excellence where plant personnel are watchful and attentive, well-informed, and ready to take actions that optimize plant and business performance.

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