Intelligent Industrial Recorders

The µR series are the compact industrial recorders with the recording widths of 100 mm and 180 mm.

The 100 mm family consists of 1,2,3,4-pen and 6-dot models.

The 180 mm family consists of 1,2,3,4-pen and 6,12,18,24-dot models.
Get reliable, high quality output with the "Power of Paper!"
Recorders with the reliability of Yokogawa

Leading-Edge Technology Offers High Reliability and High Quality
- Leveraging contact-less technology
- Actuators reduced in size through high precision manufacturing technology
- High degree of integration using custom ICs
- Dust and splashproof front door (conforms to IP54)

Superior Ease-of-Operation
- Large, VFD full dot matrix display (μR10000: 101 x 16, μR20000: 181 x 16)
- Easily navigable interactive settings
- New chart cassette (enables historical trend review during recording)
- Internal illumination comes standard (high intensity white LED)

Multiple Functions Meet a Variety of Needs
- Broad lineup (1-, 2-, 3-, or 4-pen models, and 6-, 12-, 18-, or 24-dot models)
- Dot model (6-dot model) achieves one second measurement intervals
- Universal input
- Supports a wide range of input sensors
- Supports 35 types of input including optional TC, RTD.
- Mathematical functions
  - No. of Mathematical channels: 8 channels (Pen models), 12 channels (μR10000 dot model), 24 channels (μR20000 dot models)
  - Computation types: Arithmetic, logic, relation and static computations
- Recording: Pen model: Assignable to any pen, Dot model: Fully recordable
- Supports Ethernet or RS-422/485 interfaces
Servo Unit
The pen servo unit takes advantage of an ultra-small, rack-and-pinion stepping motor. The servo unit is smaller and consumes less power than previous models.

Splash-proof Front Door
(conforms to DIN 40050-IP54)
The front door meets DIN 40050-IP54 standards in panel-mount installations.

Safety/EMC Standards
Yokogawa’s highly reliable industrial recorders support safety and EMC (electromagnetic compatibility) standards. And of course, the µR conforms to the European CE marking standard.

Use of ASICs
The recorders feature a high degree of functional integration through Yokogawa’s renowned ASICs (application specific integrated circuits, or custom ICs). They allow for reduced power consumption, increased lifespan of components, and suppression of heat emissions.

Splash-proof Front Door
(conforms to DIN 40050-IP54)
The front door meets DIN 40050-IP54 standards in panel-mount installations.

Ethernet (10Base-T)
Data management possible via network.

Input Terminals*
* Individual terminals are removable, making wiring and maintenance easy.

Optional Terminals*
* Individual terminals are removable, making wiring and maintenance easy.

Multi-Display (Displays a Variety of Screens) for Site Monitoring
Displays that support our customers’ site monitoring mode with high visibility. Large VFD: 101 x 16 full dot matrix using a variety of screens.

• “I want to use my recorder as a monitor.”
  6 channel digital display (6 dot model)

• “I want to monitor the recorder position on an analog indicator.”
  Flag display

• “I want to monitor alarms collectively.”
  Channel alarm status display

Matching the Displayed Operation Screen to the Application
The user can switch between up to fifteen previously configured operation screens using the DISP key.

Navigational Display Makes Setup a Snap
The instrument features a simple configuration, with Operation mode for normal use, and Setting mode for use during setup. In Operation mode, measured values, time, and alarms are updated, and lists are printed. In Setting mode, you can enter measuring ranges, alarm values, and other parameters. Also, Setting mode offers a navigational display that eases entry of settings.

Easier to Acquire, Easier to Read
Uses a large, easy-to-view VFD 101 x 16 full dot matrix display. All settings are interactive, and supported by the navigational display, offering easier to read selections and superior ease of operation.
Matching the Displayed Operation Screen to the Application

The user can switch between up to fifteen previously configured operation screens using the DISP key.

Optional Terminals*

Input Terminals*

Ethernet (10Base-T)

Data management possible via network.

Navigational Display Makes Setup a Snap

The instrument features a simple configuration, with Operation mode for normal use, and Setting mode for use during setup. In Operation mode, measured values, time, and alarms are updated, and lists are printed. In Setting mode, you can enter measuring ranges, alarm values, and other parameters. Also, Setting mode offers a navigational display that eases entry of settings.

Navigational display to support setting selections (Example: Range Setting)

Easier to Acquire, Easier to Use

Uses a large, easy-to-view VFD 181 x 16 full dot matrix display. All settings are interactive, and supported by the navigational display, offering easier to read selections and superior ease of operation.

Bringing You the Highest Reliability

Servo Unit

The pen servo unit takes advantage of an ultra-small, rack-and-pinion stepping motor. The servo unit is smaller and consumes less power than previous models.

Splash-proof Front Door

The front door meets DIN 40050-IP54 standards in panel-mount installations.

High-Voltage Solid State Scanners

High withstand voltage semiconductor relays have been adopted for scanners that switch the input signal. They enable high speed scanning of six dots per second or twelve to twenty-four dots in 2.5 seconds, increase the life of the scanner, and reduce noise.

Use of ASICs

The recorders feature a high degree of functional integration through Yokogawa’s renowned ASICs (application specific integrated circuits, or custom ICs). They allow for reduced power consumption, increased lifespan of components, and suppression of heat emissions.

Safety/EMC Standards

Yokogawa’s highly reliable industrial recorders support safety and EMC (electromagnetic compatibility) standards. And of course, the µR conforms to the European CE marking standard.

Delivers Confidence

The critical factor in continuous recording using industrial recorders is reliability. Leveraging the latest technology, Yokogawa brings you that reliability in a compact, lightweight unit that embodies all the breakthroughs and know-how that Yokogawa has cultivated over the years.

Multi-Display (Displays a Variety of Screens) for Site Monitoring

Displays that support our customers’ site monitoring needs with high visibility. Large VFD: 181 x 16 full dot matrix using a variety of screens.  * “I want to use my recorder as a monitor.” 12 channel digital display (12, 16, and 24 dot models).

Two groups are alternately displayed: 16 dot model: 1Gr (1 to 16ch), 2Gr (17 to 32ch) 24 dot model: 1Gr (1 to 24ch), 2Gr (25 to 48ch)

4 channel digital display

1. 01 100.0°C 02 200.0m³
2. 1400.0 1500.0 1600.0 1700.0 1800.0
3. 2300.0 2400.0
4. 300.0cm³ 04 400.0kPa

* “I want to monitor the recorder position on an analog indicator.”

Flag display

* “I want to monitor alarms collectively.”

Channel alarm status display

24 dot model

Use of ASICs

The recorders feature a high degree of functional integration through Yokogawa’s renowned ASICs (application specific integrated circuits, or custom ICs). They allow for reduced power consumption, increased lifespan of components, and suppression of heat emissions.

Easier to Acquire, Easier to Use

Easier to Acquire, Easier to Use

Easier to Acquire, Easier to Use

Uses a large, easy-to-view VFD 181 x 16 full dot matrix display. All settings are interactive, and supported by the navigational display, offering easier to read selections and superior ease of operation.
**Ethernet Support**

By using DAQLOGGER* with the DX, DARWIN, or other instruments on your existing network, you can manage measured data centrally. (Gate µR software required for the µR (with C3, C7 option), sold separately.) Also, using DAQLOGGER’s event processor, you can automatically send information when Event/Report data occurs (alarms, time, file creation, etc.) via e-mail or FTP.

**Serial Communications**

Comes with RS-422A/485. The Modbus protocol (RTU, SLA VE) is also supported.

**E-mail Notification**

- Alarm information
- Fixed time instantaneous values
- Report data

DAQLOGGER* Highly Reliable Data Logging Software

DAQLOGGER lets you build a realtime data logging environment with up to thirty two of our main recorders, data acquisition instruments, and controllers, on up to sixteen hundred channels.

**Application Software That Expands the Possibilities of the µR**

**Monitor Software**

Displays measured and computed data on the PC screen in real time. Enables construction of an optimal monitoring environment.

**Viewer Software**

Lets you easily redisplay, analyze, and convert logged data, and print waveforms.

**E-mail Transmission**

Sends e-mail messages upon occurrence of events. You can also attach data, reports, instantaneous values, or monitor screens to e-mails.

**FTP Client Function**

You can send data files and reports automatically sent by FTP to a file server when they are created.

**RXA10 Configuration Software**

(sold separately)

Entry and management of settings for measurement and calculation channels is easier than ever. Also, settings can be entered via communication interface.

RXA10 Configuration Software

Entry and management of settings for measurement and calculation channels is easier than ever. Also, settings can be entered via communication interface.

**Application Software That Expands the Possibilities of the µR**

**Monitor Software**

Displays measured and computed data on the PC screen in real time. Enables construction of an optimal monitoring environment.

**Viewer Software**

Lets you easily redisplay, analyze, and convert logged data, and print waveforms.

**E-mail Transmission**

Sends e-mail messages upon occurrence of events. You can also attach data, reports, instantaneous values, or monitor screens to e-mails.

**FTP Client Function**

You can send data files and reports automatically sent by FTP to a file server when they are created.

**RXA10 Configuration Software**

(sold separately)

Entry and management of settings for measurement and calculation channels is easier than ever. Also, settings can be entered via communication interface.

**Application Software That Expands the Possibilities of the µR**

**Monitor Software**

Displays measured and computed data on the PC screen in real time. Enables construction of an optimal monitoring environment.

**Viewer Software**

Lets you easily redisplay, analyze, and convert logged data, and print waveforms.

**E-mail Transmission**

Sends e-mail messages upon occurrence of events. You can also attach data, reports, instantaneous values, or monitor screens to e-mails.

**FTP Client Function**

You can send data files and reports automatically sent by FTP to a file server when they are created.

**RXA10 Configuration Software**

(sold separately)

Entry and management of settings for measurement and calculation channels is easier than ever. Also, settings can be entered via communication interface.

**Application Software That Expands the Possibilities of the µR**

**Monitor Software**

Displays measured and computed data on the PC screen in real time. Enables construction of an optimal monitoring environment.

**Viewer Software**

Lets you easily redisplay, analyze, and convert logged data, and print waveforms.

**E-mail Transmission**

Sends e-mail messages upon occurrence of events. You can also attach data, reports, instantaneous values, or monitor screens to e-mails.

**FTP Client Function**

You can send data files and reports automatically sent by FTP to a file server when they are created.

**RXA10 Configuration Software**

(sold separately)

Entry and management of settings for measurement and calculation channels is easier than ever. Also, settings can be entered via communication interface.
A Surprising Variety of Applications and Uses to Meet Every Customer's Needs.

- Supports our customers' site monitoring needs.
- Offers optimal solutions and a user-friendly operating environment.

- Data Display and Recording for Water Purification Equipment (Acquisition of Data on Water Quality/Amount of Flow)
  - Environmental data (water quality, amount of flow) is measured on-site and monitored from an office.
  - Displays and records temperature, flow, turbidity, pH, dissolved oxygen, and other factors, and monitors on-site temperature.
  - Automatically calculates flow with the computation function (M1 option).
  - Connects with DAQLOGGER for remote monitoring in real-time.

- Temperature Monitoring and Recording in a Tunnel Kiln (Acquisition of Temperature Data for Ceramic Processing)
  - Selects and displays intervals according to on-site processes (zones) to create the optimum temperature monitoring and recording setup.
  - Selects from a variety of inputs (universal input)
  - Monitors and records alarms on-site upon occurrence of temperature data and abnormalities.
  - Optimizes monitoring through simultaneous display of multiple channels and AUTO screen switching.
  - Connects with DAQLOGGER to control the operational conditions (temperature and alarms) in a furnace from your office.

- Managing Sterilization of Pharmaceuticals and Foodstuffs (Acquisition of Sterilization/Pasteurization Data)
  - Automatically computes F0 value according to temperature.
  - Computed results are recorded together with temperature and other parameters (pharmaceutical/foodstuff temperature, pressure, etc.).
  - Monitors and records alarm(s) upon occurrence of abnormalities on-site.

- Display and Recording of Data from Environmental Testing Equipment (Acquisition of Test Data from a Thermostatic Chamber)
  - Measures environmental testing data, and displays and records a variety of data in an easy-to-understand format.
  - Selects from a variety of inputs (universal input)
  - Automatically computes relative humidity from dry bulb temperature and web bulb temperature (M1 option).
  - Computes results are recorded together with temperature and humidity (pressure and current).

- Equipment Maintenance in a Power Plant (Acquisition of Data on Turbine Temperature and Vibration)
  - Displays outer diameter and temperature in an electrical wire coating process for monitoring insulation quality.
  - Monitors and records diameter, temperature, and alarms upon occurrence of abnormalities on-site.

- Management of Electrical Wire Coating Process (Acquisition of Data on Wire Temperature and Outer Diameter)
  - Monitors and records diameter, temperature, and alarms upon occurrence of abnormalities on-site.

- Superior ease-of-operation
- Easy-to-see display
- Accurate measurement
- Reliable recording

- Variety of Applications and Uses to Meet Every Customer's Needs.
Specifications

See the general specification (GS04P01B01-01E, GS04P02B01-01E) for the detailed specifications.

Input

- **Measurement Inputs**
  - μR10000: 1, 2, 3, 4 (pen) and 6 (dot) points
  - μR20000: 1, 2, 3, 4 (pen) and 6, 12, 18, 24 (dot) points
- **Inputs**
  - Universal input
  - DCV: 20, 60, 200 mV 2, 6, 20, 50, 5 V
  - RTD: PT1000, J1000

- **Display**
  - Set value is indicated as a point on the bar graph (only for bar graph display)
  - In case of an alarm:
    - For digital display: Alarm type indicator
    - Shared alarm display
    - Alarm occurring channel No. is displayed
    - For bar graph display: Flashing point indicator

- **Power supply**
  - **Rated Power Voltage:** 100-240 VAC (automatically selected)
  - **Power Voltage Range:** 90-132 VAC, 180-264 VAC
  - **Rated Power Frequency:** 50/60 Hz (automatically selected)
- **Power Consumption**
  - (Approx.)
  - μR10000
  - 100 VAC power source
  - 240 VAC power source
  - Maximum
  - 1 to 4 pen model
  - 12 VA*
  - 17 VA*
  - 40 VA
  - 6 dot model
  - 13 VA*
  - 18 VA*
  - 40 VA
  - In balance

- **Alarm output relay (A1, A2, A3, A4*, A5*)**
  - Number of output: 2, 4, 6, 12, 14*
  - Relay contact rating: 250 VDC/0.1 A (resistance load), 250 VAC (50/60 Hz) /3 A
  - *only for μR20000
- **RS-422A/485 communication interface (IC3)**
  - Measurement value output and setting parameter input/output
  - Conforms to EIA-422A (RS-422A) and EIA-485 (RS-485) standard
  - **Ethernet communication interface (IC7)**
    - Measurement value output and setting parameter input/output
    - Transmission media: 10 Base-T
    - Protocol: TCP, IP, UDP, ICMP, ARP
  - **FAIL/chart end detection and output (F1)**
    - In CPU error occurrence or the chart end, output relay is activated.
    - Relay contact rating: 250 VDC/0.1 A (resistance load), 250 VAC (50/60 Hz) /3 A
  - **Clamped input terminal (H2):**
  - **Non-glare door glass (NS):**
    - Non-glare door for front door
  - **Portable Type (H5?):**
    - Provides carrying hand and power code
- **Mathematical function (M1)**
  - Number of computation channel: 8 channels (pen model), 12 channels (μR10000 dot model), 24 channels (μR20000 dot model)
  - Arithmetic operation (+, –, ×, ÷, =, ≠, ≤, ≥), Square, Absolute, Common logarithm (y=log(x)), Exponential (ex), Power (Xn), Relational operator (<, ≥, >, =, ≠), Logic (AND, OR, NOT, XOR)
  - Statistical calculation: Statistical type: MAX, MIN, AVE, SUM, MAX-MIN
  - Computation channel can be recorded

- **Calibration Correction (CC1)**
  - **Remote control (R1)**
  - **Header printout (BT1)**

Optional Specification

- **Ambient Temperature and Humidity**
  - 0 to 50°C, 20 - 90% RH (at 5 to 40°C)
- **Memory Backup**
  - Lithium battery to save settings parameters
  - Approx. 10 years (at room temperature, for standard model)
- **Settings Protection Function**
  - Password method
- **Internal Light**
  - White LED
- **Operation Position**
  - 0°: Frontwards. Within 30° from horizontal

**General Specification**

**Standard Computation**
- **Dot model**
  - Moving average
  - Signal damping
- **Pen model**
  - Output range: 0 to 50 °C
  - Allowable power supply voltage range: 21.6 to 26.4 V DC/AC
  - Allowable power supply current range: 90-132 VAC, 180-264 VAC

**Recording and Printing**

<table>
<thead>
<tr>
<th>Recording Method</th>
<th>Pen model: Disposable felt pens, Plotter pen, Dot model: 6 color wire dot</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Pen Offset Compensation:</strong></td>
<td>OFF selectable (Pen model only)</td>
</tr>
<tr>
<td><strong>Effective Recording Width</strong></td>
<td>μR10000: 100 mm, μR20000: 180 mm</td>
</tr>
<tr>
<td><strong>Chart</strong></td>
<td>μR10000: Plain-paper Z-fold chart (16 m)</td>
</tr>
<tr>
<td><strong>Recording Period</strong></td>
<td>μR20000: Plain-paper Z-fold chart (20 m)</td>
</tr>
<tr>
<td><strong>Recording Period</strong></td>
<td>Pen model: Continuous for each channel</td>
</tr>
<tr>
<td><strong>Dot model</strong></td>
<td>μR10000: Max. 6 ch/10/sec</td>
</tr>
<tr>
<td><strong>μR20000</strong></td>
<td>Max. 6 ch/20/sec</td>
</tr>
<tr>
<td><strong>Chart Speed</strong></td>
<td>Speed 1, speed 2 change by remote control signals (option).</td>
</tr>
<tr>
<td><strong>Recording Format</strong></td>
<td>Analog recording: Zoning recording, Partial expanded recording</td>
</tr>
<tr>
<td><strong>Digital printout:</strong></td>
<td>Channel number or TAG (Dot model only), Alarm, Periodic printout or Report printout, Message printout, Record start time, Chart speed printout, List printout, Manual printout, SET UP List printout</td>
</tr>
</tbody>
</table>

**Display**

- **Display Method**
  - μR10000: VFD (101x16 dot matrix), μR20000: VFD (181x16 dot matrix)
- **Display Types**
  - Multiple displays
  - Digital, bar, flag, DIVIDIO display etc. can be displayed.
  - 15 display types can be selected from approx. 80 display types.
- **Status Display**
  - Recording in progress (RECORD), Shared alarm (ALARM), Channel No. display of occurring alarm (pen model: 1, 2, 3, 4 or Dot model: μR10000: 1 to 6, μR20000: 1 to 24), Chart end display (CHART END) For the model with option (FAIL/chart end detection and output), Math (MATH), Key lock display (KEY Lock)
- **Setting**
  - Settings display by interactive mode. In setting, navigator method is used. Display updated interval can be selected from AUTO/MAN.

- **Bar Graph Display**
  - Measurement value: left/right (%) reference or center zero reference display (each channel selectable).
- **Alarm**
  - Alarm: Alarm setting level display and flashing display of occurring alarm.
- **Display Brightness Setting**
  - Display brightness level: 1 to 8

**Number of Levels**

- Up to 4 level for each channel.
- **Alarm Type**
  - High and low limits, differential high and low limits, high and low rate-of-change limits and delay high and low interval time of rate-of-change alarms: The measurement interval times 1 to 15
### Standard Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>1 pen</th>
<th>2 pen</th>
<th>3 pen</th>
<th>4 pen</th>
<th>dot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-fold chart</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>1 color ribbon cassette</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Disposable felt-pen cartridge</td>
<td>Red</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cartridge</td>
<td>Green</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Plotter pen</td>
<td>Purple</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Mounting brackets</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Instruction manual (CD-ROM)</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Operation manual</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

### Spares/Optional Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Model Code (Parts No.)</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z-fold chart</td>
<td>15050-GAW</td>
<td>10 (sales unit)</td>
</tr>
<tr>
<td>1 color ribbon cassette</td>
<td>15050-1AX</td>
<td>1 (sales unit)</td>
</tr>
<tr>
<td>Disposable felt-pen cartridge</td>
<td>Blue</td>
<td>1 (sales unit, 3 piece/unit)</td>
</tr>
<tr>
<td></td>
<td>Violet</td>
<td>1 (sales unit, 3 piece/unit)</td>
</tr>
<tr>
<td>Plotter pen</td>
<td>Blue</td>
<td>1 (sales unit, 3 piece/unit)</td>
</tr>
<tr>
<td>Mounting brackets</td>
<td>15050-BX</td>
<td>2 (sales unit)</td>
</tr>
<tr>
<td>Shunt resistors (for screw input terminal)</td>
<td>4105802</td>
<td>250 Ω ± 0.1%</td>
</tr>
<tr>
<td>Shunt resistors (for clamped input terminal)</td>
<td>4105801</td>
<td>100 Ω ± 0.1%</td>
</tr>
</tbody>
</table>

### Dimensions

<table>
<thead>
<tr>
<th>µR10000</th>
<th>µR20000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Suffix Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Option Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>-2</strong></td>
<td><strong>µR10000</strong></td>
</tr>
</tbody>
</table>

### µR10000

<table>
<thead>
<tr>
<th>µR10000</th>
<th>µR20000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Suffix Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Option Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>-2</strong></td>
<td><strong>µR10000</strong></td>
</tr>
</tbody>
</table>

### µR20000

<table>
<thead>
<tr>
<th>µR10000</th>
<th>µR20000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Suffix Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Option Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>-2</strong></td>
<td><strong>µR10000</strong></td>
</tr>
</tbody>
</table>

### µR10000

<table>
<thead>
<tr>
<th>µR10000</th>
<th>µR20000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Suffix Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Option Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>-2</strong></td>
<td><strong>µR10000</strong></td>
</tr>
</tbody>
</table>

### µR20000

<table>
<thead>
<tr>
<th>µR10000</th>
<th>µR20000</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Suffix Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Option Code</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Description</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>Language</strong></td>
<td><strong>µR10000</strong></td>
</tr>
<tr>
<td><strong>-2</strong></td>
<td><strong>µR10000</strong></td>
</tr>
</tbody>
</table>

### Spares/Optional Accessories

<table>
<thead>
<tr>
<th>Name</th>
<th>Model Code (Parts No.)</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote control (5 contacts)</td>
<td>15050-1AW</td>
<td>3 pens (unit)</td>
</tr>
<tr>
<td>3 legs isolated RTD input</td>
<td>15050-1AX</td>
<td>3 pens (unit)</td>
</tr>
<tr>
<td>Shunt resistor</td>
<td>15050-1BX</td>
<td>2 (sales unit)</td>
</tr>
<tr>
<td>Mounting brackets</td>
<td>15050-1BX</td>
<td>2 (sales unit)</td>
</tr>
<tr>
<td>Shunt resistors (for screw input terminal)</td>
<td>15050-1AX</td>
<td>250 Ω ± 0.1%</td>
</tr>
<tr>
<td>Shunt resistors (for clamped input terminal)</td>
<td>15050-1AX</td>
<td>100 Ω ± 0.1%</td>
</tr>
</tbody>
</table>

### Notices

- Before operating the product, read the instruction manual thoroughly for proper and safe operation.
- If this product is to be used with a system requiring safeguards that directly involve personnel safety, please contact the Yokogawa sales office.

---

**Subject to change without notice.**

**All Rights Reserved, Copyright 2005, Yokogawa Electric Corporation.**

---

**A Yokogawa Commitment to Industry**

**vigilance**

**quality**

**innovation**

**foresight**

---

**YOKOGAWA ELECTRIC CORPORATION**

Network Solutions Business Div./Phone: (81)-422-52-7179, Fax: (81)-422-52-6619

E-mail: rs@cs.jp.yokogawa.com

**YOKOGAWA CORPORATION OF AMERICA**

Phone: 800-888-6400, Fax: (1)-770-251-6427

Phone: (31)-33-4641806, Fax: (31)-33-4641807

Phone: (65)-62419933, Fax: (65)-62412606

**YOKOGAWA CORPORATION OF EUROPE**

www.yokogawa.com

**YOKOGAWA ELECTRIC CORPORATION**

Printed in Japan, 605(KP) [Ed : 04b]