

General Specifications

Model 475 Field Communicator

475
FIELD
COMMUNICATOR

Yokogawa is pleased to offer the 475 Field Communicator – a colorful innovative faster portable communicator.

The 475 Field Communicator establishes the new standard for handheld communicators. With a full-color user interface, powerful diagnostic capabilities, and fast start up and operating times, the 475 Field Communicator will power your experience and simplify your work in the field.

Use the 475 Field Communicator to configure field devices or perform diagnostics for effective troubleshooting in the field. Create a quality segment, detect power supply problems, run valve diagnostics, or locate incorrect terminations and faulty devices.

The 475 Field Communicator supports all HART 5, HART 7, and Foundation Fieldbus devices. It is intrinsically safe so it can go wherever you go.

- ◆ View device diagnostics in charts, graphs, and gauges for easy readability and diagnosis with full-color user interface.
- ◆ View, transfer, and print device configurations between your communicator and PC.
- ◆ Achieve days of run-time with the Lithium-Ion power module.
- ◆ Work more efficiently with fast start-up and operating time.
- ◆ Establish quick connections between your PC and communicator with Bluetooth communication.
- ◆ Take your communicator to all areas of the plant with Intrinsic Safety certifications, including CENELEC / ATEX, FM, CSA, FISCO, and IECEx.

Specifications

Processor and Memory

Microprocessor:	80 MHz Hitachi SH3
Memory Internal Flash:	32 MB
System Card:	1 GB secure digital card
RAM:	32 MB

Physical

Weight:	Approximately 1.65 lbs (0.75Kg) with battery
Display:	¼ VGA (240 x 320 pixels) color, 3.5 in (8.9 cm) transreflective display with anti-glare touch screen.
Keypad:	25 keys including 4 action keys, 12 alphanumeric keys, tab key, function key, backlight key, power key, and 4 cursor- control (arrow) keys; membrane design with tactile feedback.

Power Supply / Charger

Battery:	Rechargeable Lithium-Ion power module
Battery Operating Time:	20 Hours – continuous use 40 Hours – typical use 80 Hours – standby use
Battery Charger:	Input Voltage 100-240 VAC, 50-60 Hz Cables include US, European, and UK plugs



Connection

Battery Charger:	Mini DIN 6-pin Jack
HART / Fieldbus:	Three 4mm banana plugs (one common to HART and Foundation Fieldbus)
IrDA Port:	Supporting up to 115 kbps +/- 15° maximum angle from center line 18 inches maximum distance
Bluetooth:	32.8 ft (10m) communication distance Uses standard Windows drivers FCC, IC, and CE approvals

Environmental

Usage:	+14°F (-10°C) to +122°F (+50°C) 0% to 95% RH (non-condensing) {for +32°F (0°C) to +122°F (+50°C)}
Charge:	+50°F (+10°C) to +104°F (+40°C)
Storage:	<i>With Batteries</i> -4°F (-20°C) to +131°F (+55°C) <i>Without Batteries</i> -4°F (-20°C) to +150°F (+60°C)

Enclosure Rating: IP51 (from front)

Shock: Tested to survive a 1 meter drop onto concrete

Shipping Weight

Shipping Weight: 5lbs (2.3Kg) (Varies by Option)

Easy Upgrade Requirements

- PC with Internet access
- CD Rom drive
- IrDA port (or Adapter) or Bluetooth (or Adapter)
- SD Card Reader (required for some upgrades)
- Windows XP (SP2 or SP3) or Windows Vista Business (SP1)

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Model	Description	
R/475	FIELD COMMUNICATOR	
Code	Communication Protocol	
-H	HART	
-F	HART and Foundation Fieldbus	
Code	Battery Type	
P	Rechargeable Lithium-Ion Power Module	
Code	Power Supply / Charger	
1	Power Supply and Charger NiMH / Li-Ion (US / UK / EU connection types included)	
9	Not included.	
Code	Language	
E	English	
Code	Product Certification	
KL	ATEX, FM, CSA, and IECEx Intrinsically Safe (includes FISCO as applicable)	
NA	No Approval	
Code	Easy Upgrade	
U	Easy Upgrade (3 year)	
Code	Management	
GM	Graphics / Device Configuration Management	
Code	Bluetooth Communication	
T	Bluetooth Communication with PC	
9	No Bluetooth Communication	
Code	Options	
/A	Spare Power Module	
/S	Protective Rubber Boot w/Stand	

Base Model **475** includes Field Communicator with Color LCD display, System Card, Leadset with Connectors, Carrying Case, "Getting Started" guide, Resource CD, Stylus, and Straps.

To obtain an Australian power cord, order P/N 00375-0003-003


This option should only be considered if the user already has a **475** Power Supply / Charger

Easy Upgrade allows users to add new System Application Software and Device Descriptions (DD) to the **475** for a period of 3 years.

Graphics: Enables user to access enhanced graphical features.
Device Configuration Management: Allows user to store and print 1,000 configurations.

Bluetooth is only available in certain end user countries. See a list of countries with Bluetooth approvals at www.fieldcommunicator.com

A fully charged Li-Ion Power Module is capable of delivering power for 20 hours of typical field use. If requirements exceed this specification, a Spare Power Module should be specified.

Protective Rubber Boot

 Also available as a separate item

R/475-HP1EKLUGMT/S Typical HART Model Code

-OR-

R/475-FP1EKLUGMT/S Typical HART / Fieldbus Model Code

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SPARE PARTS

Part Number	Description
00275-0096-0001	Ruggedized 250Ω Load Resister
00475-0005-0005	Protective Rubber Boot
00475-0002-0022	Rechargeable Li-Ion Power Module
00475-0003-0022	Power Supply & Charger (LI-Ion / NiMH) US/UK/EU connection types included
00475-0003-0002	Power Supply / Charger Standard set (US/UK/EU cords)
00475-0003-0003	Power Supply / Charger Australian (AU) cord
00375-0004-0001	Lead Set with Connectors
00475-0005-0002	Hand Straps (pack of 2)
00475-0005-0003	Carry Case with Straps
00475-0005-0004	Magnetic Hanger
00475-0006-0001	Stylus (pack of 2)
00375-0015-0002	IrDA to USB Adapter
00375-0018-0022	System Card (SD) Reader (with USB Interface)
00475-0018-0023	Bluetooth Adapter
00475-0044-0001	Stand

Online Licensing

Part Number	Online Licensing
00375-0142-0002	Foundation Fieldbus license via Web
00375-0142-2003	Easy Upgrade (Renewal) license via Web

Accessory Kits

Part Number	Description
00475-0019-FK01	Field Accessory Kit
00475-0019-SK01	Shop Accessory Kit (Bluetooth)
00475-0019-SK01	Shop Accessory Kit (non-Bluetooth)

Documents

Part Number	Online Licensing
00475-0045-3001	Getting Started Guide
00475-0049-0001	Resource CD
00475-0049-DVD1	Resource DVD
00475-0050-TRN1	Technical Training CD

Expanded Descriptions

IrDA to USB adapter: Enables communication between the 475 and the Easy Upgrade Programming Utility. Either IrDA or Bluetooth Communication is required to register the 475 or use the Online Licensing system.

System Card (SD) Reader: Upgrades a System Card much faster than the IrDA or Bluetooth adapters. Major upgrades require a card reader.

Field Accessory Kit: Contains Protective Rubber Boot, Ruggedized 250Ω Load Resistor, Magnetic Hanger, Stylus Pack, and 475 Technical Training CD.

Shop Accessory Kit (Bluetooth): Contains Field Accessory Kit plus System Card Reader, Bluetooth Adapter, and Resource CD / DVD.

Shop Accessory Kit (non-Bluetooth): Contains Field Accessory Kit plus System Card Reader, IrDA to USB Adapter, and Resource CD / DVD.

Bluetooth adapter: Enables communication between the 475 and the Easy Upgrade Programming Utility. Either IrDA or Bluetooth Communication is required to register the 475 or use the Online Licensing system.

Easy Upgrade (Renewal) license: Extends Easy Upgrade three years beyond the date of expiration of the current Easy Upgrade license. The renewal may be purchased no sooner than 6 months before expiration of the current license. Any order must be accompanied by the System Card S/N of the 475 receiving the upgrade. Instant notification of when the license is available for download will be forwarded to any e-mail address designated on the Purchase Order.

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EXJ 110A:PT-101

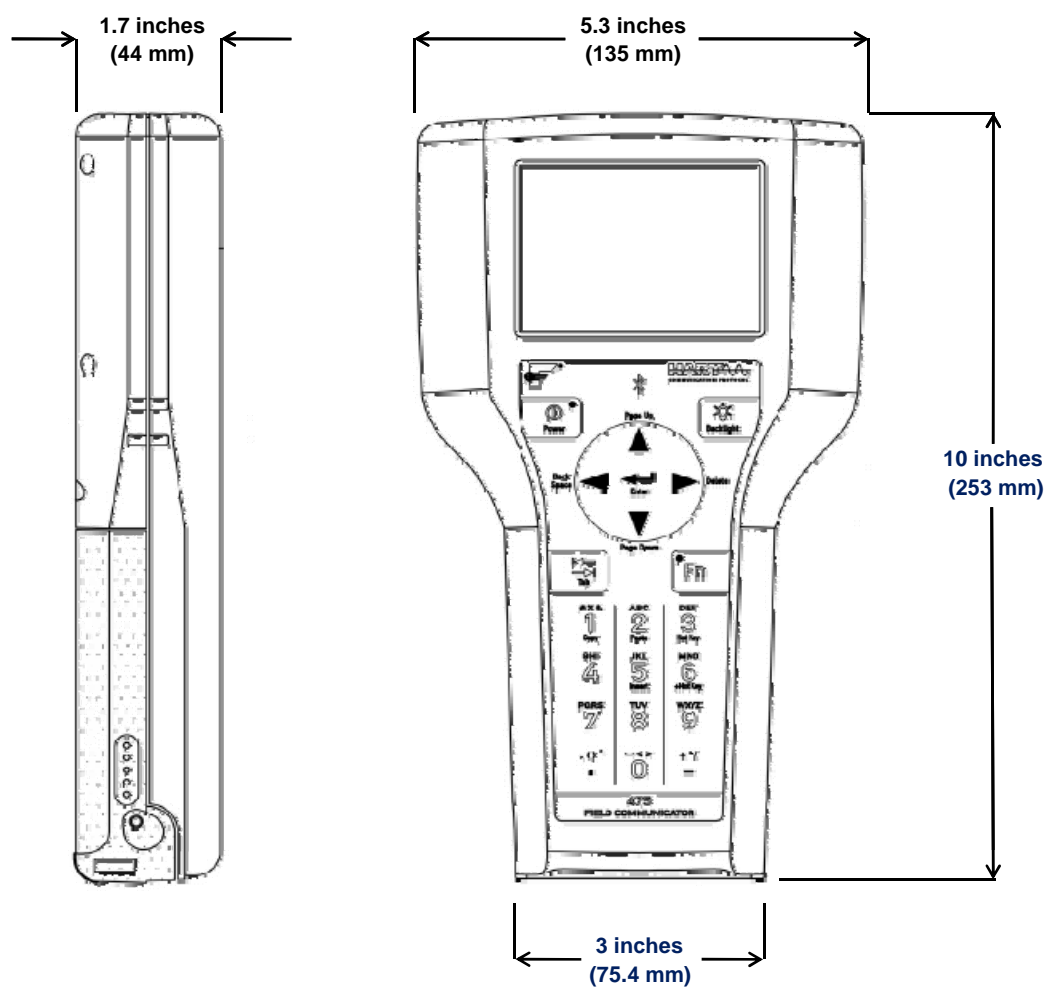
Basic setup

1 *Tag	PT-101
2 Unit	InH2O
3 Range values	
4 Device information	
5 Xfer functn	Linear
6 Damp	1.00 s
7 LCD display config	

HELP SEND HOME

YOKOGAWA 
Yokogawa Corporation of America

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