

General Specifications

375 FIELD COMMUNICATOR

Yokogawa is pleased to offer the 375 Field Communicator-- Building on experience with the proven 275 HART Communicator, the 375 Field Communicator is designed to support all devices using HART® or FOUNDATION™ fieldbus digital communication protocols. The 375 Field Communicator enables users to configure and maintain all of their instruments and valves--in the field or on the bench--with one intrinsically safe handheld device.

The 375 Field Communicator runs on Windows CE, a robust, real-time, operating system and has a processor that is 20 times faster than the 275, featuring 32MB of application memory (64 times more than the 275). The optional Configuration Expansion Module holds hundreds of device configurations, and is externally accessible.

HART Revision 6 support, and **the ability to upgrade** the 375 Field Communicator **onsite** using the Internet makes keeping up-to-date with the required Device Description drivers for all the devices in your plant easy.

The 375 Field Communicator meets the Intrinsic Safety requirements of CENELEC/ATEX, Factory Mutual (FM), Canadian Standards Association (CSA), and FISCO. The battery pack is even approved for installation in hazardous areas and allows a full recharge in 2 hours, 8 times faster than the 275 HART Communicator.

FUNCTIONAL SPECIFICATIONS

Processor and Memory Specifications

- Microprocessor** ▶ 80 MHz Hitachi® SH3
- Memory Internal Flash** ▶ 32 MB
- System Card** ▶ 128 MB or higher secure digital card
- RAM** ▶ 32 MB
- Expansion Module** ▶ 32 MB or higher secure digital card

Physical Specifications

- Weight** ▶ Approx. 2 lb. (0.9kg) with battery
- Display** ▶ 1/4 VGA (240 by 320 pixels) monochrome 3.8" (9.6 cm) transfective display with touch screen
 - ▶ Anti-glare coated
- Keypad** ▶ 25 keys including 4 action keys, 12 alphanumeric keys, 4 programmable function keys, on/off, and 4 cursor control (arrow) keys; membrane design with tactile feedback



Power Supply Specifications

- Battery Pack** ▶ Rechargeable NiMH batteries
- Battery Operating Time** ▶ Up to 10 hours depending on usage
- Battery Charger Options** ▶ Input voltage 85-240 VAC, 50/60 Hz Cables included with U.S., European and U.K. plugs

Connection Specifications

- Battery Charger** ▶ Mini DIN 4-pin jack
- HART and Fieldbus** ▶ Three 4mm banana plugs (one common to HART and FOUNDATION fieldbus)
- IrDA Port** ▶ IrDA (Infrared Data Access) port supporting up to 115 Kbps
 - ▶ ±15 degrees recommended maximum angle from center line
 - ▶ Approximately 12" (30 cm) recommended maximum distance

Environmental Specifications

- Usage** ▶ -10° C (14° F) to +50° C (122° F)
 - ▶ 0% to 95% RH (non-condensing) for 0° C (32° F) to +50° C (122° F)
- Charge** ▶ 0° C (32° F) to +40° C (104° F)

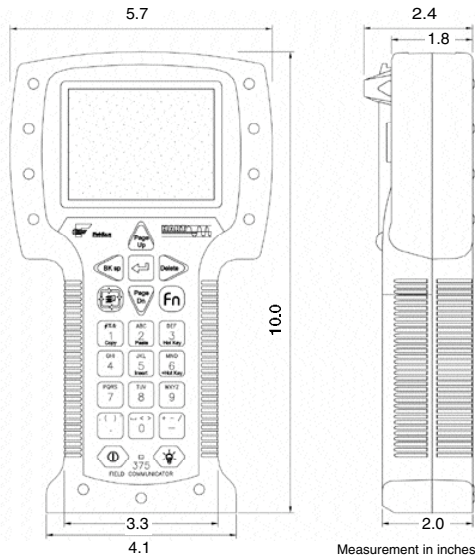
- Storage w/batteries** ▶ -20° C (-4° F) to +55° C (131° F)
without batteries ▶ -20° C (-4° F) to +60° C (140° F)

Enclosure Rating ▶ IP51 (from front)

Shock ▶ Tested to survive a 1-meter drop test onto concrete

Easy Upgrade Requirements

- Usage**
- ▶ PC with internet access
 - ▶ CD Rom drive
 - ▶ IrDA port (or adapter)
 - ▶ Windows 2000 or XP





375 Field Communicator Spare Parts List

Description	Part Number
Ruggedized 250 Ohm Load Resistor.....	00275-0096-0001
Rechargeable NiMH Battery Pack w/ Accessory Case.....	00375-0002-0011
Power Supply/Charger (90-240 VAC, 50/60Hz..... US/UK/EU connection types included)	00375-0003-0011
Lead Set with connectors.....	00375-0004-0001
Mounting Straps.....	00375-0005-0002
Carrying Case (with straps).....	00375-0005-0003
Accessory Case (clips to Carrying Case).....	00375-0005-0004
Stylus (pack of 5).....	00375-0006-0001
IRDA to USB Adapter ⁽¹⁾	00375-0015-0002
Expansion Port Plug.....	00375-0035-0001
System Card - HART® and FOUNDATION™ fieldbus.....	00375-0042-0002
System Card - HART with Easy Upgrade Option ⁽²⁾	00375-0042-0003
System Card - HART and FOUNDATION fieldbus..... with Easy Upgrade Option ⁽²⁾	00375-0042-0004
Configuration Expansion Module.....	00375-0043-0001
Stand and Utility Plate	00375-0044-0001
Getting Started Guide	00375-0045-0001
User's Manual	00375-0047-0001
Resource CD ⁽³⁾	00375-0049-0001

(1) For use with AMS/375 Interface or 375 Easy Upgrade Programming Utility.
 (2) Includes unlimited upgrades to System Card for 3 year period.
 (3) Contains 375 Programming Utility and System Software/DD database.

375 Field Communicator Ordering Information

Model	Product Description
375	Field Communicator ⁽¹⁾
Code	Communication Protocol
H	HART 
F	HART and FOUNDATION fieldbus 
Code	Battery Type
R	Rechargeable NiMH Battery Pack
Code	Power Supply/Recharger
1	Power Supply/Recharger (90/240 VAC, 50/60Hz, US/UK/EU connection types included)
9	None ⁽²⁾
Code	Language
E	English (standard)
Code	Approval/Certifications
KL	CENELEC/ATEX, FM, CSA Intrinsically Safe (includes FISCO as applicable)
NA	No Approval
Code	Easy Upgrade ⁽³⁾
U	Easy Upgrade Option (includes unlimited upgrades to System Card for 3 year period)
9	Not Included
Code	Options
	Spare Battery Pack
B	Spare Rechargeable NiMH Battery Pack ⁽⁴⁾
	Expansion Module
C	Configuration Expansion Module ⁽⁵⁾

Typical Model Number: 375 H R 1 E KL U

(1) Base Model 375 includes Field Communicator Unit, System Card, Leadset with Connectors, Carrying Case, Getting Started Guide, User's Manual, 375 Resource CD, Stylus and Straps.

(2) This option should only be considered if the user already has a 375 Power Supply/Charger. Note: Only 375 Power Supply/Chargers may be used with the 375 Battery Pack.

(3) The Easy Upgrade capability allows the user to add new System Application software and Device Descriptions (DD's) to the 375. To upgrade without this feature, the System Card must be sent to a Service Center.

(4) A fully charged battery pack is capable of delivering power for 8 hours of typical field use. If requirements exceed this specification, a second battery pack is recommended.

(5) The 375 is capable of storing a total of 25 configurations. For increased storage capacity, use the Configuration Expansion Module which is capable of storing in excess of 500 configurations.