



RK TECHNOLOGIES

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HART FIELD COMMUNICATOR Model: DS475 / HART 475

Portable HART Protocol Smart Transmitter Communicator

* HART Protocol | Compatible with 275/375/475 | LCD Display | Rechargeable

Pressure Transmitter • Flow Meters • Level Gauges • Universal HART Devices

HART Protocol
Universal communication

Rechargeable
Built-in battery

LCD Display
Easy navigation

Multi-Device
All HART instruments

PRODUCT OVERVIEW

The DS475 HART Field Communicator is a portable handheld device designed for HART communication protocol smart transmitter operation. It is fully compatible with HART275, HART375, and HART475 communicators, supporting communication with 1151, 3051, EJA, ABB and various HART protocol imported instruments. The device features alphanumeric keypad, navigation keys, LCD display with battery indicator, and comes complete with carry case, charger, communication cable, and 250 ohm resistor.

PRODUCT FEATURES

- HART protocol communication
- Compatible with HART 275/375/475
- Alphanumeric keypad input
- Four navigation arrow keys
- LCD display with battery indicator
- PV key for real-time monitoring
- Rechargeable battery
- Process variable display
- Device diagnostics & testing
- Sensor trim & calibration
- Loop test functionality
- Data backup & recovery

SUPPORTED DEVICES

- Pressure Transmitters (1151, 3051, EJA, ABB)
- Electromagnetic Flowmeters
- Vortex Flowmeters
- Target Flowmeters
- Float Level Gauges
- Metal Rotameters
- All HART Protocol Instruments

Standard Package: Communicator | Battery | Charger | Communication Cable | 250Ω Resistor | Carry Case | Manual

TECHNICAL SPECIFICATIONS

Parameter	Specification
Model	DS475 / HART 475 Field Communicator
Protocol	HART Communication Protocol
Compatibility	HART 275, HART 375, HART 475
Display	LCD with battery indicator
Keypad	Alphanumeric with navigation keys
Power	Rechargeable battery
Loop Resistance	250 ohm (resistor included)
Polling Range	Address 0 to 15
Communication	Digital superimposed on 4-20mA
Operating Temp	Standard industrial range
Supported Units	72+ engineering units (kPa, psi, mbar, etc.)



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MAIN MENU FUNCTIONS

Menu Option	Description
1. Pressure Transmitter	Configure and calibrate pressure transmitters
2. Electromagnetic Flowmeter	Setup electromagnetic flow meters
3. Vortex Flowmeter	Configure vortex flow meters
4. Target Flowmeter / Float Level	Setup target flowmeters and level gauges
5. Metal Rotameter	Configure metal tube rotameters
6. General Menu	Universal HART device configuration

PRESSURE TRANSMITTER MENU

Function	Description
Process Variables	View real-time pressure, current (mA), percentage, temperature
Diagnostics & Service	Device testing, loop test, basic setup, user range
Characterization	Sensor trim, sensor range, K-factor, format, data backup
Calibration	Sensor trim (zero/low/high), output trim (4mA/20mA)
Display Mode	%, User Set, Input Pressure, alternating display options
General Format	Three-point or five-point formatting

KEYPAD FUNCTIONS

Key	Function
ON/OFF	Enable or disable the Field Communicator
Arrow Keys (▲ ▼ ◀ ▶)	Navigate menus, select options, backspace in input mode
Enter (↵)	Confirm selection, save changes
PV Key	Quick access to real-time process variables
Alphanumeric (0-9)	Enter numbers and characters
Left Selection Key	Character input mode selection

CONNECTION REQUIREMENTS

- Ensure battery is fully charged before use
- Connect Field Communicator to the circuit with 250 ohm loop resistance
- Field device requires minimum 4mA and 12VDC for normal operation
- Default password for characterization menu: 666666

Contact RK Technologies for Pricing, Demo & Calibration Services

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