

HAND-HELD COMMUNICATOR < HHC >

DATA SHEET

FXW

This instrument is a handy type communicator with built-in battery, being designed to perform facilitated communication with operator through use of "smart" type FCX series transmitter.

FEATURES

1. **Simple operation**
Adoption of large LCD display (16 digits × 4 lines) as well as menu assisted software design provides easy-to-use communication interface.
2. **Application to every type of device**
The communicator can be used with any "smart" type of FCX transmitter, FCX-A/C transmitter, FCX-AX transmitter and FCX-AII/CII, AIII transmitter.
3. **On-line operation**
The communicator can be operated without interrupting 4 to 20mA DC signal.
4. **Full variety of protective functions**
The communicator incorporates transmitter diagnostic function, data-write protection key, battery voltage drop alarm function, automatic power standby function, etc.
5. **Optional printer**
Set data can be printed on an optional printer.



SPECIFICATIONS

Standard specifications

Applicable device: "Smart" type FCX series transmitter

- FCX transmitter
- FCX-A/C transmitter
- FCX-AX transmitter
- FCX-AII/CII transmitter
- FCX-AIII transmitter

Transmission line requirement:

- Line length; max 2km (0.75 to 1.25mm² cable. For 1km and above, twist pair cable is recommended.)
- Load resistance;
 - 250 to 578Ω in case of FCX-1 transmitter
 - 250 to 600Ω in case of FCX-A/C, FCX-AX, FCX-AII/CII transmitter (including cable resistance at 24V DC
 - In case of FCX-AIII transmitter; Refer to "Load limitations".
- Load capacitance; 0.22μF max.
- Load inductance; 3.3mH max.
- Separation from power line; 15cm or more (avoid parallel wiring.)

- Display unit:** LCD, 16 digits × 4 lines
- Operating unit:** Flat keys (32 keys), power switch, set value protection key switch
- Power source:** Built-in nickel-cadmium battery
- Battery life:** 24 hours (without option under standard conditions after full charge)
- Charger power source:** 100 to 240V AC, 50/60Hz
- Charging time:** 5 hours
- Printer (option):** Printing of 24 digits of each remote item
- Ambient temperature:** -10 to +50°C
- Storage temperature:** -25 to +60°C
- Ambient humidity:** 90% RH or less

Functional specifications

- Remote function:** See the next page.
- Power alarm function:** Battery voltage drop is detected and indicated by lamp flickering on display unit (Batt ALM).
- Set value protective function:** Set value can be changed by using key switch
- Automatic power standby function:** HHC automatically enters into standby mode when key is not accessed for more than 10 minutes (data measurement only).

Physical specifications

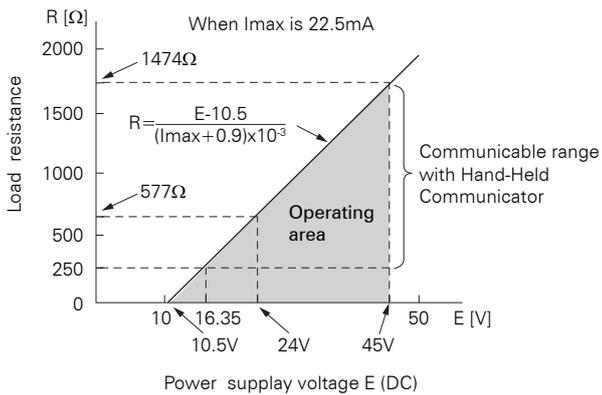
Material: Polycarbonate
Color: Gray
Dimensions (H x W x D): 55 x 98 x 223mm (without printer)
Mass: Approx. 500g (without printer)

Remote functions

Items	Display	Set
Tag No.	✓	✓
Model No.	✓	✓
Serial No. & Software Version	✓	—
Engineering unit	✓	✓
Range limit	✓	—
Measuring range	✓	✓
Damping	✓	✓
Output mode	✓	—
Burnout direction	✓	✓
Calibration	✓	✓
Output adjust	—	✓
Data	✓	—
Self diagnoses	✓	—
Printer (In case of FXW with printer option)	✓	—
External switch lock	✓	✓
Transmitter display	✓	✓
Linearize	✓	✓
Rerange	✓	✓
Saturate current	✓	✓
Write protect	✓	✓
History		
– Calibration history	✓	✓
– Ambient temperature history	✓	—

Note: HHC's version must be higher than 7.1 (or FXW □□□□1-□4), for FCX-AIII.

Load limitations



Note: I_{max} is the bigger one, either upper saturation current [mA] or upper burnout current [mA].
 When I_{max} is from 20mA to 21.6mA, calculate load resistance using I_{max} of 21.6mA.
 And when I_{max} is from 21.7mA to 22.5mA, calculate load resistance using the formula in the figure.

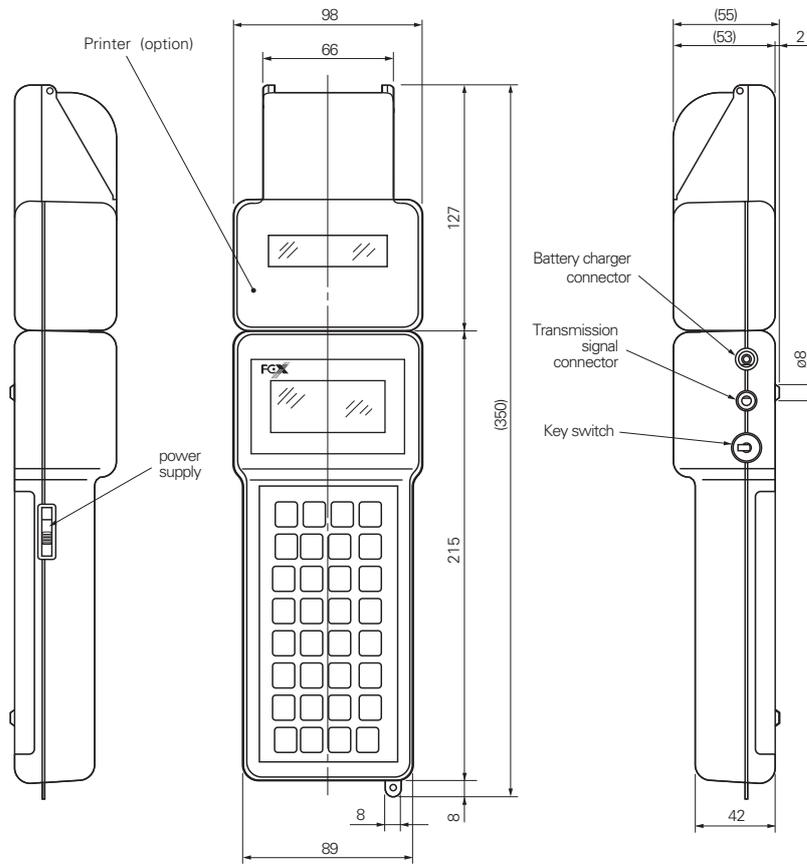
CODE SYMBOLS

1	2	3	4	5	6	7	8	9	10	Description
F	X	W		A	1			A	4	Printer Without With (explosion-proof structure is not applicable)
					0					Charger Without 100 to 240V AC 50/60Hz
										Explosion-proof structure for hazardous locations Without
										Carrying case Without With
										Application General
										Use FCX, FCX-A/C, FCX-AX, FCX-AII/CII, FCX-AIII transmitter (HHC software version 7.1 or upper)

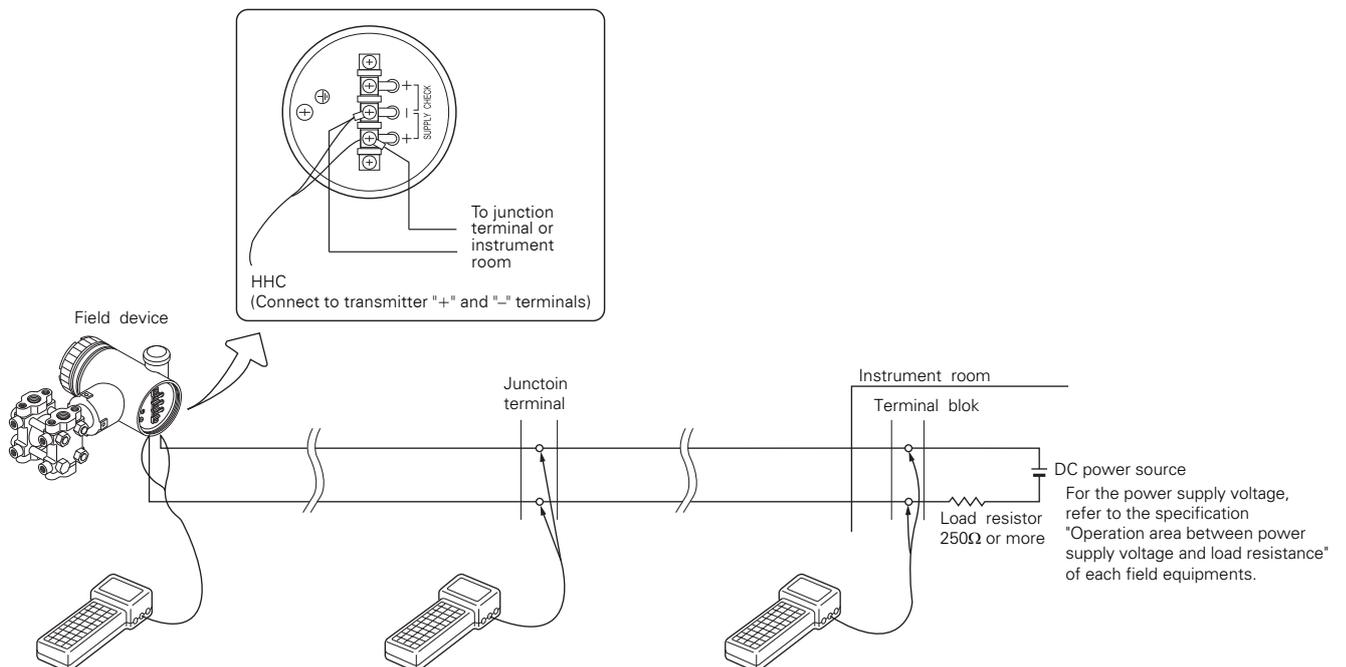
Remarks

The FCX-AII/CII, AIII series cannot be operated with the HHC whose software is older than version 6.0. The version of the HHC software can be upgraded by exchanging the built-in ROM.
 Contact the nearest Fuji Electric representative when it needs to be upgraded.
 (The software version can be checked on the screen display which appears when turning on HHC power supply.)

OUTLINE DIAGRAM (Unit:mm)



CONNECTION (For example FCX-AIII transmitter)



SCOPE OF DELIVERY

HHC, special cable (with clips), keys (2)

OPTION

Charger, carrying case, printer (based on Code symbols)

⚠ Caution on Safety

*Before using this product, be sure to read its instruction manual in advance.

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