azbil

Field Communication Software

Model CFS100 [Ver. 3.4]

Overview

Field Communication Software Model CFS100 allows the user to configure and adjust smart field devices using a PC.

In addition to supporting Azbil Corporation's proprietary SFN communication protocol for smart field devices, with a change of the communication interface Model CFS100 supports the HART communication protocol. Parameter settings can be saved to simplify field device management.

Features

Supports HART and SFN communication protocols.
With a change of the communication interface, Model CFS100 supports both the HART and SFN communication protocols.

Ease-of-use increases fieldwork efficiency
The easy-of-use five-point check function increases efficiency during loop checks.

Easy management of configured parameters
- Parameter settings can be saved by Tag No.
- As needed, parameter settings can be exported as either a CSV file (text file) or as a PDF.

Supported models

| ✓ Available | | | Not supported = Not yet available |

Supported Models	Communication Protocol			Operation Manual
	SFN	DE	HART	
Advanced Transmitter Model GTX/Model JTG,D,A,E,H,S,C	✓	✓	✓	Included with the installation CD-ROM
ST3000 Smart Transmitter	✓	✓	✓	Included with the installation CD-ROM
ST3000 Smart Multivariable Flow Transmitter Model JTD720A	✓	✓	Not supported	Included with the installation CD-ROM
Smart Pressure Transmitter Model PTG	✓	✓	✓	Included with the installation CD-ROM
Advanced Temperature Transmitter Model ATT082	Not supported	Not supported	✓	Refer to the device's manual
Advanced Temperature Transmitter Model ATT (In case of SFN/DE communication, can apply for software version 3.5 or later.)	Ver 3.5 or later	Ver 3.5 or later	✓	Included with the installation CD-ROM
Steam Flowmeter Model MVC	✓	Not supported	Not supported	Included with the installation CD-ROM
Smart Displacement type Level Transmitter Model SLX	✓	Not supported	Not supported	Included with the installation CD-ROM
Immersion Type Liquid Level Transmitter Model JTL	✓	Not supported	Not supported	Included with the installation CD-ROM
Smart ESD Device 700 Series for Safety Instrumented Systems Model AVP77_/78_/79_	Not supported	Not supported	✓	Refer to the device's manual
Smart Valve Positioner 700 Series Model AVP701/702	Not supported	Not supported	✓	Refer to the device's manual
Smart Valve Positioner 200/300 Series Model AVP20_/30_ (In case of HART communication, can apply for software version 3.9 or later.)	✓	✓	Ver 3.9 or later	Included with the installation CD-ROM
Smart Valve Positioner 300 Series HART + Travel Transmission Model AVP307	Not supported	Not supported	✓	Refer to the device's manual
Smart Valve Positioner for Rotary Valve Model SVX (In case of HART communication, can apply for software version 4.A or later.)	✓	✓	Ver 4.A or later	Included with the installation CD-ROM
MagneW PLUS+ Electromagnetic Flowmeter Model MGG (In case of SFN/DE communication, can apply for software version 6.0 or later. In case of HART communication, can apply for software version 5.0 or later.)	Ver 6.0 or later	Ver 6.0 or later	Ver 5.0 or later	Included with the installation CD-ROM
MagneW Two-wire PLUS+ Electromagnetic Flowmeter Model MTG (In case of SFN/DE communication, can apply for software version 5.0 or later.)	Ver 5.0 or later	Ver 5.0 or later	✓	Included with the installation CD-ROM
In-line Multivariable Voltex Flow Meter Model AX2200/2211/2222 (In case of HART communication, can apply for software version 78.02 or later.)	Not supported	Not supported	Ver 78.02 or later	Refer to the device's manual
Natural Gas Calorimeter Model CVM(S/W Version 1.0-1.4, 2.0)	Not supported	Not supported	✓	Refer to the device's manual

Model CFS100 does not support the devices not manufactured by Azbil Group.

Note: Personal computers are sold separately

Specifications

PC system
- **Software**
  OS: Windows 7 Professional, Windows 8.1 Pro or Windows 10 Pro[*1]
  (32-bit or 64-bit, Japanese or English edition)
  1. Operation with Windows 10 is guaranteed as of July, 2018. Since Windows 10 is supposed to be continually updated with upgrade programs, future operation cannot be guaranteed.

- **Hardware**
  Free disk space: 500 MB min.
  USB ports: One, USB 2.0 or higher
  CD-ROM drive: Needed for installation only
  Note: Do not install any application on the PC other than the software required by Model CFS100.
  Installing or using Model CFS100 requires logging onto Windows as an administrator.

SFN communication interface
USB connection: USB 2.0
Power: Supplied via the USB port
(rated current 22 mA; max. 30 mA)
Connection to PC: USB Type A plug
Connection to device: Alligator clip or easy hook
Environment:
  Operating temperature; 0 to +50°C
  Transport/storage temp.; -40 to +70°C
  Operating humidity; 5 to 95 % RH

HART communication interface
Azbil Corporation recommends the following and does not guarantee the operation of other products.
Manufacturer: MACTek Corporation
Model number: Model 010031
(USB connection type)
Note: HART communication cannot communicate simultaneously with multiple HART hosts.

Specifications are subject to change without notice.

"This product is designed for general industrial use."
11th edition

Model Number Configuration Table

Field Communication Software Model CFS100

Base number

CFS100		–			

Connection	USB connection	U			
Communication interface*1	none	X			
	SFN communications interface (alligator clip)	1			
	SFN communications interface (easy hook)	2			
Option	none				X

*1. To use the HART communication protocol, select "X" here, and purchase the HART communication interface separately.
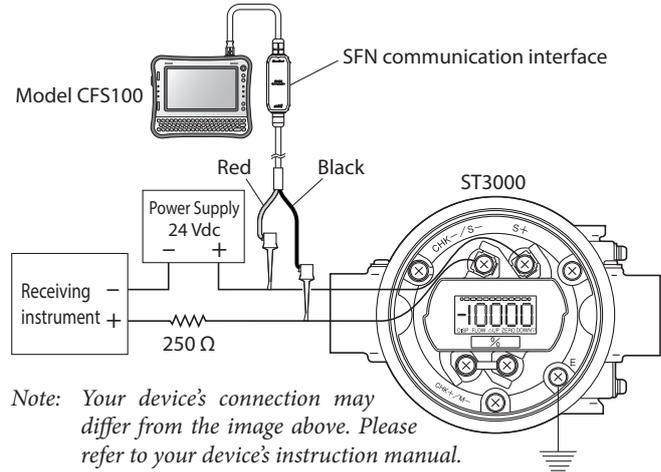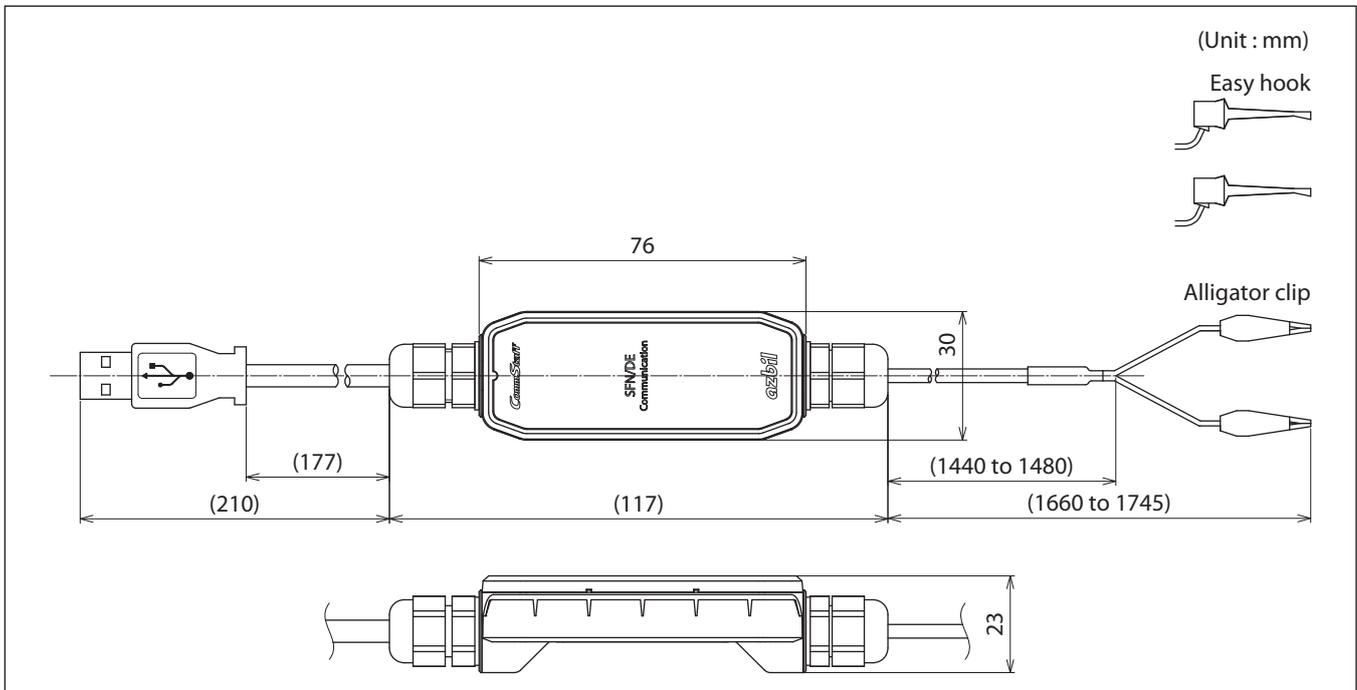
Connection Example

Model CFS100 — SFN communication interface

Red — Black

Power Supply 24 Vdc − +

Receiving instrument − +

250 Ω

ST3000

Note: Your device's connection may differ from the image above. Please refer to your device's instruction manual.

Figure 1. Example of SFN communication connection.

External Dimensions

(Unit : mm)

Easy hook

Alligator clip

76

30

(177)

(210)

(117)

(1440 to 1480)

(1660 to 1745)

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Please read "Terms and Conditions" from the following URL before ordering and use.

https://www.azbil.com/products/factory/order.html

Specifications are subject to change without notice.

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