General Specifications

Model SPS24
SENCOM PC Software

FLEXA
SENCOM

GS 12A01S02-01E

■ General

SENCOM sensors, which perform measurement in combination with the FLXA202/FLXA21 2-wire analyzer, are usually calibrated via the analyzer at the site. With the SPS24, operators can calibrate sensors at a laboratory or other place as long as there is a PC with SPS24 installed. At calibration, the SPS24 helps sensors store the calibration data in their own memory. When the sensor is connected back to the FLXA202/FLXA21, the calibration data in the sensor is automatically sent to the FLXA202/FLXA21.
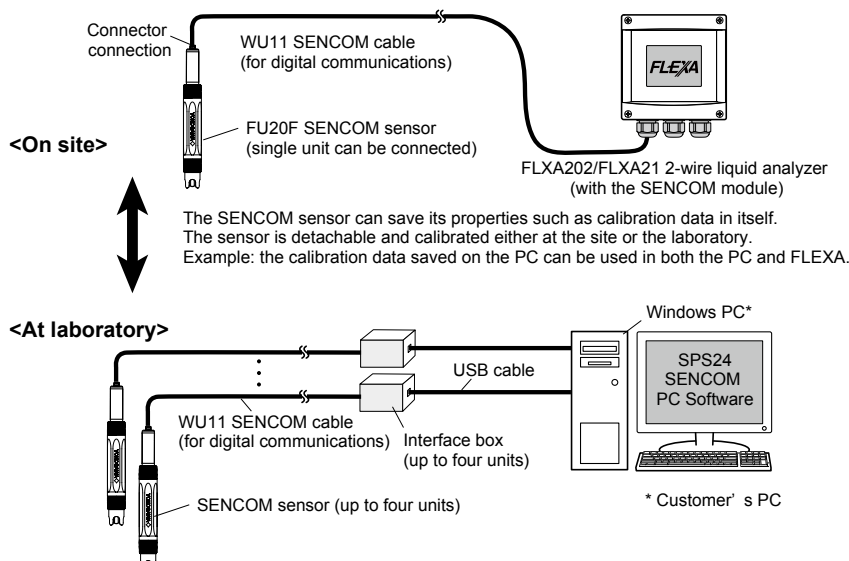
SENCOM sensors use a connector connection and so can easily be connected to or disconnected from the cable. SENCOM sensors are connected to a SPS24-installed PC via an interface box. A WU11 SENCOM cable connects the sensor to the interface box and a USB cable connects the interface box to the PC.

As it is PC software, the SPS24 has a larger display than the analyzer. The analyzer displays a multi-layered menu in abbreviated form, while the SPS24 can display the full text and supplementary information, enabling smooth operation and reducing operation hours.

Working with the data management function and other applications in the PC, the SPS24 can save a large amount of calibration data, and allow editing and outputting of reports. The SPS24 can import and export the calibration data and the setting data for calibration, and so can gather past sensor data in the PC or easily transmit data to other PCs.

By referring to past data, the SPS24 can automatically estimate the health of the sensor, and thus display the anticipated replacement date.

■ Features

Easy-to-use interface
The SPS24 displays sufficient information and makes operation more efficient thanks to the ease of use and flexible display area of the PC.

Trend graphics to show input stabilization
The trend wave form displayed during calibration allows operators to visually recognize when the input becomes stable. Operators can start measurement after confirming that the input has stabilized or can set a range in advance to automatically start measurement.

Simultaneous calibration of up to four SENCOM sensors
The SPS24 can connect up to four sensors for simultaneous calibration.

Data management for SENCOM sensors
The SPS24 can maintain previous data of sensors as well as the data of currently connected sensors. With this feature, operators can:
- check past calibration records as well as the latest one
- record and manage calibration work for each operator under the valid user account
- limit access by setting user levels

Migration of sensor data
The setting data of the current sensors can be saved in the PC. The data can also be copied to other sensors.

Flexible reporting function
Properties of the sensors which are saved in the PC can be output in PDF or Excel formats. The output parameters are selectable.

■ Configuration

Connector connection
WU11 SENCOM cable (for digital communications)

FU20F SENCOM sensor (single unit can be connected)

<On site>

FLXA202/FLXA21 2-wire liquid analyzer (with the SENCOM module)

The SENCOM sensor can save its properties such as calibration data in itself.
The sensor is detachable and calibrated either at the site or the laboratory.
Example: the calibration data saved on the PC can be used in both the PC and FLEXA.

<At laboratory>

Windows PC*

SPS24 SENCOM PC Software

USB cable

WU11 SENCOM cable (for digital communications)

Interface box (up to four units)

SENCOM sensor (up to four units)

* Customer's PC

For details of the SENCOM sensor and WU11 SENCOM cable, see the General Specification (GS 12B06J03-04E).

YOKOGAWA ◆

■ Syatem Requirements

Operating system (OS):
Windows 7 SP1 (32 bit/64 bit)
The operating system language and the software language are either English or Japanese.

PC hardware: Installed with either of the OSs above and equipped with the CPU and memory listed below.
Intel Core 2 Duo CPU E7500 or higher. Minimum 2 GB RAM

Display: XGA (1024×768) or larger
HDD: At least 100 MB for application (more space may be required to save data)
Drive: CD-ROM drive
Number of USB ports: Depends in the number of SENCOM sensors to be connected (1 to 4).
Printer: Units that can operate with either of the Windows systems above

■ Functional Specifications

Sensor management
Screen for measurement, calibration, etc.
• Current measurement readings:
Displays measurement readings of the connected sensor
• Performance: Displays various information of the connected sensor
• Sensor setup: Sets parameters of the connected sensor
• Calibration: Performs calibration

Database viewer
Screen for managing various information of the sensors connected currently and in the past
• New data: Displays the latest information of the sensor
• Calibration history: Displays calibration records of the sensor

Error information
• Error information: Displays the current error
• Error history: Displays the error records

Setup
• RS port number: Sets the RS port number for the interface box to be connected with the PC
• Communication log:
• Unit setting: Selects and sets the unit
• Display: Selects the date format and customizes the menu bar
• Select language: Selects a software language to be displayed
• User account: Enables or disables the user account management and sets other relevant parameters
• pH/ORP: Sets various parameters common to pH/ORP sensors

• SENCOM is a registered trademark of Yokogawa Electric Corporation.
• Microsoft, and Windows 7 are registered trademarks of Microsoft Corporation US.
• Intel and Pentium are registered trademarks of Intel Corporation US.
• Other company names and brand names in this document are registered trademarks or trademarks of their respective holders.

● Example of screen
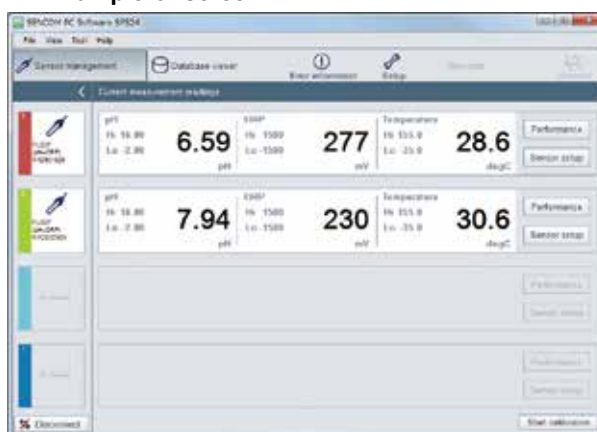
**Current measurement readings screen
(with two FU20F SENCOM sensors connected)**

■ Model & Suffix Codes

This software can be installed on a single computer only. It has a single licence only.

Model	Suffix code	Option code	Description
SPS24	············	············	SENCOM PC software (*1)
—	-NN	············	Always -NN
Option		/BC2	Totally 2 sets (*2)
		/BC3	Totally 3 sets (*2)
		/BC4	Totally 4 sets (*2)

*1: SPS24 is provided on a CD. It comes with interface box, WU11 SENCOM cable (3 m), and USB cable.
*2: When /BC2 is chosen, for instance, two sets of interface box, WU11 SENCOM cable (3 m), and USB cable totally.

■ Specification of Interface Box

Parts number: K9701PM
This includes an interface box, a driver for the interface box, and an USB cable.

Communication standard: RS-485 (with a sensor)
USB2.0 (with a PC)
Connector: Pin terminals for SENCOM cable (with a sensor)
USB Standard Type B (with a PC)
Insulation: 2500 V RMS
Environment: Indoor
Temperature: 0°C to +55°C
Humidity: 10% to 80% (no condensation)
Storage:
Temperature: –10°C to +60°C
Humidity: 10% to 90% (no condensation)
EMC:
EN61326-1 Class A,Table 2 (For use in industrial locations)
Australia, Newzeland Electromagnetic Conformity Standard
Korea Electromagnetic Conformity Standard
Weight: Approx. 90 g

● External dimensions