



2003

# **USB1.1 Interface Support** 3912-20 COMMUNICATION BASE

Complete with LCD for Checking Data and Making Settings in the Field

# **USB Interface for Connecting the Data Logger Series to a PC**



3632-20 TEMPERATURE LOGGER

Waterproof with built-in sensor -20.0°C to 70.0°C



3633-20 TEMPERATURE LOGGER

Separate external sensor -40.0°C to 180.0°C



3634-20 INSTRUMENTATION LOGGER

For measuring typical instrumentation signals DC 20.00 mA



3635-24/-25/-26 **VOLTAGE LOGGER** 

-24: DC ± 500.0 mV -25: DC ± 5.000 V -26: DC ± 50.00 V



3636-20 CLAMP LOGGER

For measuring alternating current on two channels 50 00/500 0 A AC (clamp sensor sold separately)



3637-20 AC VOLTAGE LOGGER



3912-20

#### 3638-20 LEAK LOGGER For measuring leak current on two

channels 100.0 mA/1000 mA AC (clamp sensor sold separately)



### 3639-20 PULSE LOGGER

For cumulative pulse measurement for a precipitation gauges, flow gauge, etc.



# 3640-20 LUX LOGGER

For illumination measurement 2000 lx to 200000 lx



## 3641-20 HUMIDITY LOGGER

Alternates recording of temperature and humidity on two channels -40°C to 85.0°C 0.0%rh to 100.0%rh



#### 3645-20 VOLTAGE LOGGER With preheat function

DC  $\pm$  50.00 mV to  $\pm$  50.00 V



- Compatible with the USB 1.1 interface
- Equipped with an LCD display that makes it easy to check collected data and change settings in the field
- Improved reliability in data retention
- Does not consume battery power while connected to a PC
- Clock backup when battery needs replacement (approximately 12 hours)
- ■Same easy-to-use interface, like the current
- Integrates with PC software for the 3911-20 (Operates with both the 3911-20 and the 3912-20)



JQA-E-90091



# Select Either USB or the RS-232C as the PC Communication Interface for the Data Logger Series

The USB-compatible 3912-20 has been added as a communication base for the flexible Data Logger Series of compact loggers for measuring information such as temperature, humidity, instrument signals, load current, leak current, voltage, pulse signals, and illumination. There are now two types of communication bases (which are used to download data recorded by a Data Logger to a PC) for the Data

Logger Series: the RS-232C-compatible 3911-20 and the newly released USB 1.1-compatible 3912-20. The communication bases have proven popular for their ability to facilitate the collection of data in the field. Because the 3912-20 is equipped with an LCD, it also allows the user to easily check data and change settings.

Specifications of Bundled PC Communication Software

● Supported OS: Windows 98/Me/2000/XP (for DOS/V)
● Display: Graph display (16 channels maximum, two cursors, enlarge/reduce/scroll possible), measurement data list display, data count, average value, maximum value, minimum value, recording date and time ● Printing: Graph printing (16 channels maximum, printing between cursors), measurement data list, data count, average value, maximum value, minimum value, recording date and time ● File formats: Proprietary format (binary code), text save (CSV format) \* CSV format: A comma-delimited text format that can be directly read by Excel

Analysis and data processing data

Use either the 3912-20 COMMUNICATION BASE

(USB) or the 3911-20 COMMUNICATION BASE

(RS-232C) for communication (transferring data and

The 3912-20 can collect up to 16,000 data elements for

up to 16 channels; when installed in the field, the 3912-

20 can collect data from multiple devices and then send

all of the data to a PC for analysis and processing.

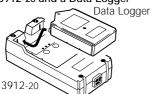
settings) between a Data Logger and a PC.

# **Function Specifications**

Display	Dot matrix LCD (128 × 64 dots)	
Communication combinations	PC → 3912-20	Clock, recording interval, start control, recording method, comment
	3912-20 → PC	Collected data (16 channels maximum: 256,000 data elements maximum)
	3912-20 → Logger	Clock, recording interval, start control, recording method, comment
	Logger → 3912-20	Collected data (16,000 data elements maximum)
Communication method	3912-20 ⇔ Logger	Infrared optical communications (synchronous serial communications, three lines)
	3912-20 ⇔ PC	USB 1.1 (full speed: 12 Mbps)
Communication speed	3912-20 ⇔ Logger 3912-20 ⇔ PC	Approximately 250 data elements/second (reference value) Approximately 16,000 data elements/second (reference value)
Cable	USB cable (provided, approximately 1m)	
Recording capacity	16 channels maximum (16,000 data elements maximum × 16 channels)	

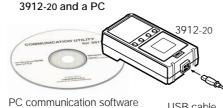
## **General Specifications**

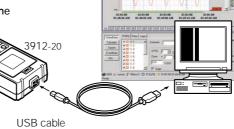
- Backup: Yes (Prevents loss of stored data during battery replacement; clock is backed up by a two-layer capacitor for approximately 12 hours) (reference value)
- Battery life: Approximately 3 months or more (when idle)
- Communication: Approximately 50 times (sending 16,000 data elements × 16 channels from Data Logger → 3912-20 → PC)
   Power supply: 1.5V batteries × 4 alkaline dry cells (LR03)
   Maximum rated power: 0.4 VA
- Dimensions: Approx. W68.5 mm (2.70 ") × H128 mm (5.04 ") × D36 mm (1.42 ") (expluding protrusions) Mass: 180g(6.35 oz.) (including batteries)
- Locations for use: Indoors, at altitudes of up to 2000 m (6562 -ft.)
- Operating temperature range: 0°C(32°F) to 40°C(104°F), up to 80%rh (with no condensation) Storage temperature range: -10°C(14°F) to 50°C(122°F), up to 80%rh (with no condensation) Applicable standards: EMC EN61326-1:1997+A1:1998 Safety EN61010-1:2001 overvoltage category I (expected overvoltage of 30 V), pollution degree 2 Accessories: Operation Guide, USB cable, PC communication software (CD-R), alkaline batteries (LR03) × 4
  - Communication between the 3912-20 and a Data Logger



Install in a fixed location when using infrared optical communication

• Communication between the





on computer

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