Chapter 1: Handling Instructions

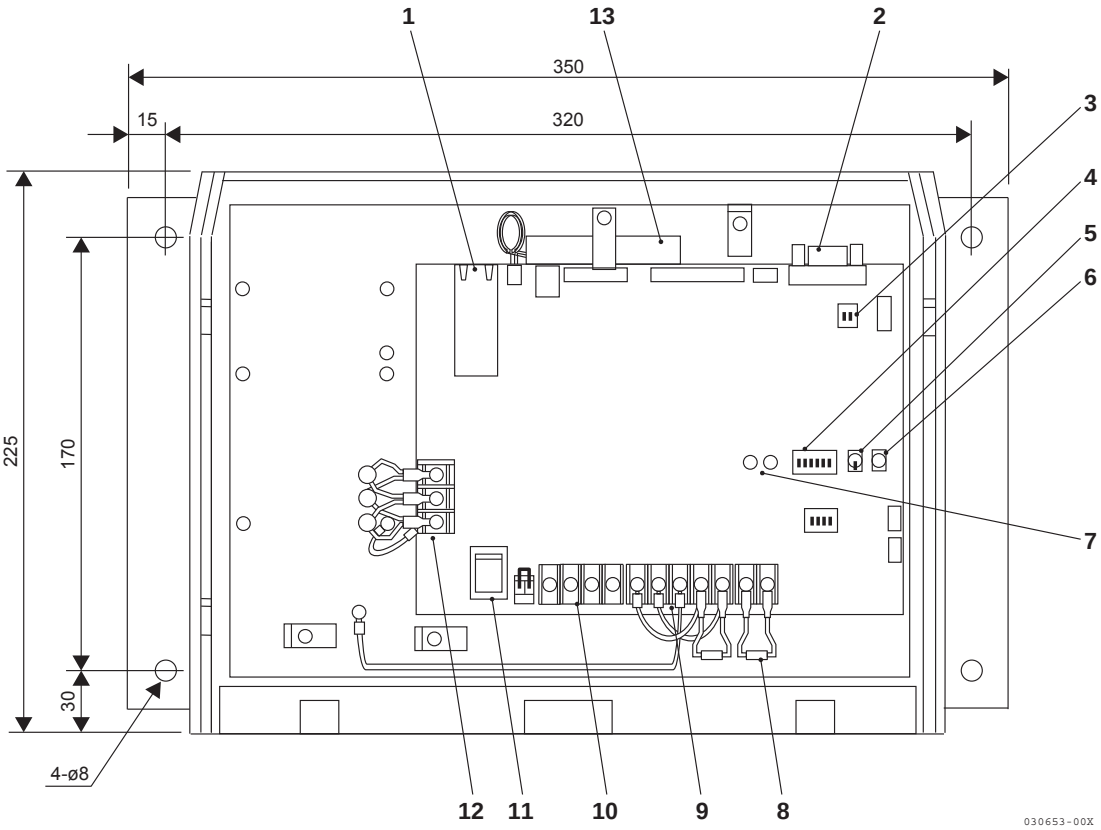
1. Specifications

Type name		CLCW2B1
Systems monitored		Yanmar GHP Yanmar CP
Number of units monitored		Up to 16 GHP outdoor units/CP units; up to 128 indoor units (*1)
Input/output capabilities	LAN	100BASE-TX / 10BASE-T
	Service port	Single-channel (RS232C compliant port for data collection and configuration)
	Outdoor unit communication port	Single-channel (RS485 compliant port for communications with GHP/CP)
	Pulse input ports (for connecting a gas flow meter) (for connecting a power meter)	2-channel (minimum pulse width: 100 ms) (Designed to connect to an open collector or no-voltage contact output pulse meter)
Display capabilities		Two LEDs (one red LED and one green LED)
External dimensions		350 (W) × 225 (H) × 99 (D)
Mass		2.1kg
Power supply		DC24V
Power consumption		10 W or less
Storage temperature range		-20°C~+70°C
Operating temperature range		-20°C~+55°C
Operating humidity range		25~85%RH
Vibration resistance		9.8m/s2 (1G)
Chassis		AAS resin
Suspended particles of dust		Not excessive.
Installation place		An indoor place without exposure to: • Direct sunlight • Vibration
EMC tests		EN 55022: 2006 EN 61000-4-2: 1995+A1: 1998+A2: 2001 EN 61000-4-3: 2006 EN 61000-4-4: 2004 EN 61000-4-5: 2006 EN 61000-4-6: 2007 EN 61000-4-8: 1993+A1: 2001
Internal battery		Manganese dioxide and lithium cell (1 piece) Voltage: 3V Capacity: 1500mAh

*1: When the adapter is connected to a CP system, the number of indoor units that can be monitored is reduced by the number of inverters.

Do not open the cover of the adapter. Internal servicing should be done by a qualified service engineer.
The descriptions provided on the next and following pages are intended for reference by a qualified service engineer only.

2. Components and Functions



1- LAN connector

····· Use this connector for communication via e-mail with the monitoring center.

2- PC communication connector (service port)

····· Use this connector for communications with a PC such as a laptop.

3- DIP switch block (SW4)

····· Switches for configuring and controlling the adapter.

4- DIP switch block (SW3)

····· Switches for configuring and controlling the adapter.

5- "Disable Communication" switch (SW1)

····· Use this switch to disable communication via e-mail.

6- Manual call switch (SW2)

····· Use this switch to make a call manually for communication tests and other purposes.

7- LED 1 and LED 2

····· The LEDs display the adapter operation/communication status.

8- Terminating resistor

····· When connecting an outdoor unit communicating cable to the adapter, remove this resistor from the adapter, and then attach it to the communication cable terminal block of the last outdoor unit.

9- Outdoor unit communication cable terminal block

····· Use this terminal block to connect outdoor unit communication cables (RS-485 compliant).

10- Pulse connection terminal block for gas flow meter and power meter

····· Use these terminals to supply the adapter with pulses output from a gas flow meter and a power meter.

11- Power switch (SW5)

····· Use this switch to turn on/off power to the adapter.

12- Power cable terminal block

····· Use this terminal block to connect 24V DC power supply.

13- Backup battery

····· This is a battery to maintain monitoring data.
For removal, first turn off the adapter power, remove the wire harness connected to the circuit board and loosen the fixing screw.

3. Power-on to the adapter

By turning on the power switch (**11**), the power is turned on and the adapter starts to operate.
Powering up the adapter does not require a special procedure.

4. Power-off to the adapter

By turning off the power switch (**11**), the power is turned off and the adapter stops to operating.
Powering down the adapter does not require a special procedure.

5. Disabling communication

Turning on the Disable Communication switch (**5**) (by setting it to the upper position) interrupts the current communication session and disables communication functions until the switch is turned off. Normally, leave this switch off (set to the lower position).

6. Manual call

You can make a call manually and conduct a communication test by pressing and holding the manual call switch (**6**) in the ON position for 3 seconds or longer. This switch does not work, in the case that the Disable Communication switch (**5**) is off.

7. LED display

LED 1 and LED 2 (**7**) indicate the current status of the adapter.

• LED 1 (green) ·····Displays the status of communication via e-mail:

Display	Meaning
Not lit	Powered off
Lit	Normally operating
Flashing (pattern 1)	Preparing for communication
Flashing (pattern 2)	Communicating

• LED 2 (red) ·····Displays information relating to a fault detected on systems monitored.

Display	Meaning
Not lit	Normally operating or powered off
Lit	Configuration error or some other fault except below
Flashing (pattern 1)	Fault detected with one or more GHP/CP units
Flashing (pattern 2)	Communication failure detected with one or more GHP/CP units

Flashing (pattern 1)

Lit (for 0.5 second)	Not lit (for 0.5 second)	

Flashing (pattern 2)

Lit (for 0.2 second)	Not lit (for 0.2 second)	Lit (for 0.2 second)	Not lit (for 0.2 second)	Lit (for 0.2 second)	