



The functions are revised and added as below with inverter's ROM number is 1400 or later of the inverter. It might be referred to the attached instruction manual and the appendix for the maintenance (INR-SI47-1177-E).

(The numbers of chapters, items and tables on this appendix follow the attached instruction manual.)



Inverter's ROM version can be referred to by maintenance information (menu 5_14).

3.4.6 Reading maintenance information– "Maintenance Information"

The maximum cumulative time of the maintenance information such as "Cumulative run time of electrolytic capacitor on the printed circuit board" and "Cumulative run time of the cooling fan" are to be 99,990 hours. The display of the maintenance information is as follows. And the "Judgement on service life (Table 7.3)" of item 7.3.1 on chapter 7 : Maintenance is the time which is written on the INR-SI47-1177-E.

Table 3.18 Display Items for Maintenance Information

LED Monitor shows:	Item	Descriptions
5_06	Cumulative run time of electrolytic capacitor on the printed circuit board	Shows the content of the cumulative run time counter of the electrolytic capacitor mounted on the printed circuit board. Unit: thousands of hours.(Display range: 0.001 to 9.999, 10.00 to 99.99) When the total ON-time is less than 10000 hours (display: 0.001 to 9.999), data is shown in units of one hour (0.001). When the total time is 10000 hours or more (display: 10.00 to 99.99), it is shown in units of 10 hours (0.01). When the total time exceeds 99990 hours, the count stops and the display remains at 99.99.
5_07	Cumulative run time of the cooling fan	Shows the content of the cumulative run time counter of the cooling fan. This counter does not work when the cooling fan ON/OFF control (function code H06) is enabled but the fan does not run. The display method is the same as for " Cumulative run time of electrolytic capacitor on the printed circuit board (5_06)" above. When the total time exceeds 99990 hours, the count stops and the display remains at 99.99.

5.2 Overview of Function Codes

The following function is added as Terminal C1 disconnection detection.

- Terminal C1 off signal (Terminals [Y1],[Y2],[Y3],[Y5A/C] and [30A/B/C])

This output signal comes ON when the input current of terminal [C1] is less than 2mA. and goes OFF when it is 2mA or more.

This function can be output to terminals [Y1],[Y2],[Y3],[Y5A/C] and [30A/B/C]. To utilize this feature, you need to assign **C1OFF** (data = 59) to any of digital output terminals. Refer to the descriptions of E20 through E22,E24 and E27.
- PID control feedback line disconnection detection protection (LED indication "CoF")

Code	Name	Data setting range	Increment	Unit	Change when running	Data copying	Default setting
H91	C1 disconnection detection time (PID control feedback line)	0.0 : Disable 0.1~60.0s : Detection time	0.1	s	Y	Y	0.0

After H91(Disconnection detection time) is set from 0.1 to 60.0s and the all of the condition as below are satisfied for set time, "CoF" alarm comes ON. When H91 is set to the 0.0s, "CoF" alarm does not come ON by disconnection detection.

- The input current on the terminal C1 is less than 2mA.
- The terminal C1 is used for the feedback input value of PID control (E62=5).
- Under the PID control

5.2 Overview of Function Codes

The following function is added as Frequency detection hysteresis width.

Code	Name	Data setting range	Increment	Unit	Change when running	Data copying	Default setting
E32	Frequency detection hysteresis width (FDT)	0.0~120.0Hz	0.1	Hz	Y	Y	1.0

■ Frequency detection

This output signal comes ON when the output frequency exceeds the frequency detection level specified by E31, and it goes OFF when the output frequency drops below the "Frequency detection level (E31) - Hysteresis width (E32)." To utilize this feature, you need to assign **FDT** (data = 2) to any of digital output terminals. Refer to the descriptions of E20 through E22,E24 and E27.

