
MODEL 6470 TROUBLESHOOTING

ERROR LISTINGS

There are some tests made when the instrument is switched on. Generally if an error occurs which can be removed by overwriting default values it is done automatically and an error code is given to the user. This message lasts until the rotary switch is moved.

If an error occurs that means service support is necessary, the error stays on the display and the instrument is out of order.

Three types of errors are managed on the instrument:

- **Fatal error:** Error state until power off; service is needed at once if the failure does not disappear.
- **Recoverable error:** Error state until rotary switch change; instrument can be used, but unit should be serviced if the failure occurs repeatedly.
- **Harmless error:** Error message displayed for 1 sec; only for information, but unit should be serviced if the failure occurs repeatedly.

Error #	Error type	Error description
00		Microcontroller ROM check sum
01		Hardware error tbd
02		Hardware error tbd
03		Hardware error tbd
04	Fatal	Hardware error: unexpected interrupt
06	Harmless	Watchdog autoreset
07	Harmless	Stack overflow
08	Fatal	RTC communication
11	Harmless	FlashROM: options checksum
12	Fatal	FlashROM: constants checksum
13	Fatal	FlashROM: calibration factors checksum
14	Recoverable	FlashROM: modbus base registers checksum
15	Fatal	FlashROM: frequency list checksum
16	Fatal	FlashROM: DSP programs checksum
18	Fatal/recoverable	FlashROM: battery constants checksum
19	Recoverable	FlashROM: data records sectors*
21	Fatal	Accu zero calibration
30	Recoverable	Measurement stop: NMI
31	Recoverable	Measurement stop: high voltage on inputs
32	Recoverable	Measurement stop: voltage overrange
33	Recoverable	Measurement stop: current overrange

*Deleting the user memory (stored data records) in Set-up should help.