

GPS monitor for GPSDO - Error handling matrix d.d 03-02-2023

Error:	Condition:				Display error message:			
	when error is present		when error disappears		when pushed away and error is gone		when pushed away while error still persists	
	Display	LED	Display	LED	Display	LED	Display	LED
None (all OK)	normal	normal	-	-	-	-	-	-
warning: Satellites < 4	normal	warning	normal	normal	-	-	-	-
warning: PDOP > 3.5	normal	warning	normal	normal	-	-	-	-
warning: HDOP > 2	normal	warning	normal	normal	-	-	-	-
warning: Average SNR <25	normal	warning	normal	normal	-	-	-	-
NMEA CRC error > 50	CRC ERROR	warning	normal	normal	normal	normal	normal	error
No NMEA signal	NO NMEA	error	normal	normal	normal	normal	normal	error
No FIX (no valid fix before)	!! NO FIX !!	error	normal	normal	normal	normal	normal	error
No FIX (was valid fix before)	!! NO FIX !!	FLASH error	!! NO FIX !!	FLASH error	normal	normal	normal	error

In General:

- The LED indication is independent from the display, and always shows the current situation.
 - When conditions get marginally, the LED gives a warning, display information is not affected.
 - The display error messages can be "pushed away" with the button, to be able to see the other parameters, to judge what is going on.
 - When an error condition disappears, the error message on the display also disappears.
 - But the "!! NO FIX !!" message stays, even when the Fix is restored. So even when one was away, one is still informed that there was a problem.
- (The display "normal" in the matrix are the usual display pages, like main page, SNR page, fix mode info and housekeeping page)