For band-occupancy measurements according to CCIR specifications, the results are generally required on DIN-A4-format paper within 24 hours. For example, for 675 scans in 24 hours, 2 minutes and 8 seconds are required per scan. The paper advance per scan is 0.41 mm. For 675 scans, the format length is therefore 276.7 mm.

Setting of frequency markers: Set start and stop frequencies of required frequency range. After pressing the RUN key, press the STOP key once. Now the frequency of the ESVP can be set to the required frequency marker, whereby the X deflection of the ZSG3 concerned is accurately set.

2.3.21 Error Messages

Error messages from the ESVP signal faulty operation, illegal or missing data entries and recognizable internal failures. They are output on the display 12 which reads out ERROR and a two-digit code number (table 2-4).

In addition to the error messages, the following indications of faulty operation or detection of internal overloading are provided:

a) Intermittent LEDs

When one instrument setting is blocked by another setting, the LED of the blocking function blinks when the key of the blocked function is pressed.

Example: When, in the CISPR indicating mode, the IF bandwidth key is pressed, the "CISPR" LED blinks.

b) Intermittent measured-value indication when

- the operating range is under- or overranged at fixed RF/IF attenuation,
- the operating range is exceeded at maximum RF attenuation and AUTO,
- nonlinearity in autoranging (nonlinearity can also be simulated by rapid signal variations),
- with special functions 84 or 85 selected, the receiver frequency exceeds the frequency range defined by SF84 or SF85.

Table 2-4 Error code list

Ø1	Frequency entered above limit
Ø2	Frequency entered below limit
Ø3	CAL: CHECK. Comparison frequency response correction/ current value > 0.5 dB, occurs, for example, after an interrupted overall calibration (overall calibration required).
Ø4	No listener on IEC bus (Fault in IEC-bus controller)
Ø5	Level or offset calibration is not accomplished within the fixed time (hardware error)
Ø6	Syntax error in input via IEC bus and illegal time-of-day and data input
Ø7	Correction value at CAL. TOTAL > 5 dB; complete calibration discontinued.
Ø8	Memory register not occupied at RCL
1Ø	+10 V — Failure of a supply voltage (the failure of the +5-V supply voltage cannot be output)
11	-10 V
12	+12 V
13	+20 V
14	+30 V
2Ø	Current register — At start of an automatic frequency scan, one or more values are not defined.
21	Register 1
22	Register 2
23	Register 3
24	Register 4
25	Register 5
3Ø	START frequency > STOP frequency
31	START frequency = STOP frequency and XY recorder or ZSG3 connected
32	MAX. level < MIN. level
33	SPEC.FUNC. 61 Log. X axis and $\frac{f_{stop}}{f_{start}} < 1.4$
4Ø	ZSG3 error: Error message if SPEC.FUNC. 61 is switched in at SCAN RUN with ZSG3.
41	No frequency record exists with SF57 + RUN
52	Synthesizer 1 (n x 100 MHz) — Control loop errors
53	Synthesizer 1 (1st Oscillator)
54	Synthesizer 2
55	SSB board
56	Mixer 2 (800-MHz- or 300-MHz oscillator)
57	Filter control (range start indication)
58	Evaluation (10.7-MHz oscillator)
59	Calibration generator (oscillator loop or level control)