

Chapter 6 - Info codes

Error types

- 0 Jumps to monitor for repetition of state
- 1 No return Infinite loop
- 2 Return to calling program after one second delay
- 3 Return to calling program after 5 beeps
- 4 Return to calling program
- 5 Return to calling program after 5 beeps and key pressed

Device numbers

- .0 GDT
- .1 RS232
- .2 Imem
- .3 Xmem
- .4 Second RS232
- .5 Card Memory
- .6 Radio
- .7 Distance
- .8 PVX/Alidad
- .9
- .10
- .11
- .12 Servo
- .13 Tracker
- .14
- .15 Angle

Info codes

Code	Type	Description
1	3	Plum out of range
2	3	Wrong face
		Aim mode
3		Distance already recorded
4	3	Measure invalid
5	3	Undefined mode switch or table
6	3	Angle <15° from Hor plane
7	3	UDS contains distance labels
8	3	Bat low, registration not possible
9	3	Bat low, in external unit.
10	3	No active device.
11	3	Vertical difference < 5
12		Not Active
13		
14		
15	3	Not correct section, Roadline
16	3	Remote active
17	3	Autolock active
18	3	CU not on alidad
19		Error occurred during transmission
20.i	3	Illegal label number
21.i	3	Serial communication RS232, general error
22.i		No or wrong device connected
23.i	3	Time-out
24.i		Illegal state to execute command. (load/output)
25	3	Real time clock error
26.i	3	Backup battery to old
27	3	Option not installed
28.i	3	No data in buffer
29	3	Table activated, can't be altered
30.i		Syntax error
31	3	Out of range, try to step outside a file.
32	3	Not found (files or programs)

33		File / Record exists
34	3	Error in file / record separator / file creation
35.i	3	Data error
36	3	Memory full
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38		
39	3	To many offset values, Roadline.
40		Process time-out (process sent to PVX)
41	3	Wrong type
42	3	UDS Program memory full
43		Square root of neg. value
44	3	Not enough data for calculation
45		
46		GDM power error, radio can't switch on GDM
47	1	UDS Call stack error
48	3	Stn. database changed.
49		No GDM connected
50	4	Wrong configuration number
51	4	Checksum error
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54		Control Unit not initiated
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Radio unit

Code	Type	Description
100		OK, after executed radio command.
101	3	Connect, connection established.
102		Ring, another radio is calling.
103	3	No carrier, noise or no contact.
104	3	Error, command syntax error or command not executed.
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107	3	Channel Busy or time-out sending.
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111		EEPROM error
112		EEPROM OK
113		PLL unable to lock, hardware
114		Invalid channel
115		Georadio ver. x.x, after radio reset
116		No Access, S register. or locked command.
117		Transmission blocked, Japanese radios only.
120		Radio error NAK
121		Radio error CAN
122		Radio not connected.
123		Time-out after radio command
124		Time-out Ack/Nak
125		Invalid channel
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137		Radio protocol error
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Card Memory

Code	Type	Description
140		General system error
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Servo system

Code	Type	Description
150		OK, Servo command executed.
151	3	Overload horizontal motor.
152	3	Overload vertical motor.
153	3	End position switch.
154	3	Servo - Tracker communication failed.
155	3	Horizontal accuracy not reached.
156	3	Vertical accuracy not reached.
157	3	Hor & Ver accuracy not reached.
158	3	Target not found.
159	3	Locked onto target
160	3	Not valid position angle.
161	3	Target lost.
162		Syntax error. (Translated to 30 by PVX)
163		Data error or data missing. (Translated to 35 by PVX)
164		Unable to initialise. '1'-'4' is the knob number.
165		
166	3	Unable to measure distance, no signal from prism.
167	3	Tracker collimation error > 5 c.
168	3	Tracker collimation error < 100m.
169		

Distance unit

Code	Type	Description
170		
171	3	Subtraction or addition error.
172	3	Divide error.
173	3	Multiply error.
174	3	Signal lost close loop.
175	3	Gang error. Distance > 32 Km.
176		Hardware failure
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190		User Break (of PVX process)
191		General failure of command to alidad
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195		Unable to allocate resource
196		Unable to deallocate resource
197	1	resource not allocated
198	1	Interrupts are enabled in monitor program
199.i	1	DO CASE-index to large in PLM
200	1	Case index in state tbl to large
201	1	Divide by zero
202		See error 218
203	1	Text not found
204	1	To many labels
205	1	Illegal vector
206	1	To many devices
207	1	Process queue 0 overflow
207.1	1	Process queue 1 overflow
210	1	Illegal interrupt
211	1	Monitor stack overflow
212	1	CPU stack overflow
213	1	Text string has no end mark
214		Wrong channel, RS232

215	3	Wrong Src_type
216	3	Wrong Dst_type
217	3	Serial channel RS-buffer overflow
218.i	3	Input string overflow
219	3	Wrong parameter

Angle unit

Code	Type	Description
221		
222		
223	3	Wrong horizontal raw data from angle detector.
224	3	Wrong vertical raw data from angle detector.
225	3	Wrong pendulum reference.
226	3	Divide error.
227	3	Process code overflow.
228	3	Wrong horizontal coarse code.
229	3	Wrong vertical coarse code.
230	3	Wrong offset
231	3	Algebra error
232	3	Automatic adjustment horizontal not possible.
233	3	Start of pendulum not possible.
234	3	Automatic adjustment vertical not possible.
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240		Execution of process terminated.
241		No active process.
242		Wrong process number.
243		Process stack error.
244		Unit required by a process not active.
245		Process active.
246		General process error.
247		Process time-out.

248		Process failed.
249		
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254		
255.i		Fatal error

Descriptions

The following pages will describe some of the most common info codes.

Code	Explanation
1	The instrument is tilted too much. The compensator can't compensate for the inclination.
2	The operation was carried out in the wrong face (C1/C2).
5	Tries to use a display- or output-table that doesn't exist.
6	The vertical angle is less than 15 gon from the horizontal angle during a collimation test.
10	Appear if a external device (ex. GDT 500) or internal (ex. distance unit) unit isn't active.
16	Appear if prg. 22 or 28 is activated in remote mode.
17	Appear if prg. 22 or 28 is activated in Autolock mode.
18	Appear if a collimation test is carried out. Collimation test only possible to perform with the control unit attached to the instrument.
19	General communication error.
20	Wrong label entered.
21.i	General serial communication error.
21.1	Overflow error
21.2	Parity error
21.4	Framing error
21.8	Received error
23	Error occur during a communication session.
24	The operation was carried out while the instrument was in an illegal mode.
30	Tries to send a command with illegal syntax on the serial channel.
31	Tries to choose illegal or non existing display- or output-table. Tries to create an illegal UDS
33	Illegal way of creating a Job- or Area-file.
34	Tries to insert a label in the editor when you have a Job or a Area No in the display.
39	Too many offset values in Roadline program.
40	Appear if confirmation on required process isn't given.

- 41 This label type can't be attached to this specific label.
- 43 Calculation error.
- 44 Call is used in too many steps (max. 4 steps).
- 48 Station labels has been change since the station was established. Station isn't established.
- 50 Wrong configuration number. (check prg. version)
- 51 Checksum error.
- 54 Instrument/Control Unit not initiated.
- 153 Tries to position the instrument to an illegal angle.
- 171 Calculation error. Could be follow up info to 175.
- 172 Calculation error. Could be follow up info to 175.
- 173 Calculation error. Could be follow up info to 175.
- 174 No signal internal lightpath.
- 175 Distance error, could appear if the operator change from one prism to another with different distances very quickly in the same phase (F1/F2/F3). You will then get different number of pulses in the phase meter and a random distance (over 32 km) as a result.
- 190 Internal info, ex. given when the operator exits a program (press no button).
- 191 Tries to execute required process and wrong confirmation is given.
- 197 Tries to communicate (ex. MAP) with another internal unit (ex. the distance meter) but fails due to the serial channel (in the instrument) is busy.
- 198 Interrupts are not allowed in the monitor program (important program within the program), should be informed before the program start (monitor).
- 199 Incorrect values for execution.
- 200 Incorrect execution.
- 201 Calculation error.
- 206 Appear if the processor receive another command before execution of the latest one.
- 207 Appear if the queue of command to the microprocessor is more than 10 (second RS232, index.4). Can appear if the operator press a key too many times.
- 207.1 Same as 207. (RS232 index.1)
- 211 Appear if the stack (part of the RAM memory that is reserved for temporary storage of bytes by the microprocessor) is too long (monitor).

- 212 Same as 211, (CPU).
- 214 RS232 (index.1) or Second RS232 (index.4)
- 215 Internal info, wrong source with the COM. program. (COM. = program that transfers data internally)
- 216 Internal info, wrong destination with the COM. program.
- 217 Data was sent without an end sign.
- 218 A command that is too long was sent on the serial channel.
- 219 Internal info.
- 227 Data is collected and calculated at the same time. If the balance between the two is too large info 227 will appear.
- 231 Calculation error due to too large values.