

TCM2.5 and TCM2.6 Command List

Commands Unchanged from TCM2-20 or TCM2-50

ax	Warm reboot
c?	Compass Update
i?	Inclinometer Update
m?	Magnetometer Update
s?	Single Update Output Word
t?	Temperature Update
cc	Clear Calibration Data
mpcal=	Multipoint Calibration
sleep	Sleep Mode (improved sleep mode over TCM2)
wake	Wake Mode (requires separate program and connection of RTS pin)
damping=	Enable Filter for damping of output
ec=	Enable Compass Data for Output Word
em=	Enable Magnetometer Data for Output Word
ep=	Enable Pitch Data for Output Word
er=	Enable Roll Data for Output Word
et=	Enable Temperature Data for Output Word
ma=	Select Magnetometer Output Option
mag_dec=	Set Declination Angle
sn=	Select Magnetic or True North
uc=	Set Compass Units
ui=	Set Inclinometer Units
ut=	Set Temperature Units

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Commands Changed from TCM2-20/TCM2-50

- b=** Set Baud rate
- Changes value upon ENTER
 - 1 = 300
 - 2 = 1200
 - 3 = 2400
 - 4 = 4800
 - 5 = 9600 (default)
 - 6 = 19200
 - 7 = 38400
 - 8 = 11500 (new value)
- timeconst=** Set the value for filtering (damping) of outputs. Values will be rounded up to one of 4 discrete values:
- 1 – 4 will be set to 4
 - 5 – 8 will be set to 8
 - 9 – 16 will be set to 16
 - 17-32 will be set to 32
- sdo=** The new TCM units use an ASIC instead of discrete components. As a result the raw data is no longer available in the same way.
- 'sdo = t' Standard TCM output string
 - 'sdo = n' NMEA 0183 output string
 - 'sdo = r' Obsolete
- factory** Factor Settings (some of the defaults have changed)
- | | |
|-------------|-------------|
| b =5 | halt=d |
| cc | ma=u |
| damping=d | mag_dec=0.0 |
| ec=e | mpcal=d |
| ed=e | sdo=t |
| em=d | sn=m |
| ep=e | uc=d |
| er=e | ui=d |
| et=d | ut=c |
| timeconst=8 | sp=8 |
- sp=** Set sampling period divisor implementation has changed
- sp = Hz
 - clock command / sp = Hz is no longer needed

TCM2.5 and TCM2.6 Command List

Commands Changed from TCM2-20/TCM2-50 (cont.)

- halt= Enable Single Character Halt has changed slightly. TCM2.5 and TCM2.6 implementation
- h=
- Stops the unit
 - Performs a save
 - Reports action complete
- Instead of TCM2-20 and TCM2-50
- h=
- Stops the unit
 - Reports action complete (though not necessarily complete)
 - Performs a save
- go Go mode has changed
- When cycling power in go mode, the first 1-2 readings will be erroneous
- lc? Query Last Calibration Score
- TCM2.5 and TCM2.6: Cal score is accessible only after multipoint calibration is disabled (mpcal=d)
 - TCM2-20 and TCM2-50: Cal score is accessible during and after multipoint calibration

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Commands Removed

To keep the software compatible with existing systems, when any of the commands below are sent, the unit will respond with the “:” as if it had accepted the command. Querying the command will result in an error code, since the command is obsolete and not being used.

autocal	Autocalibration (not used)
%skip=	Skip measurements (new filtering is superior, no longer needed)
cclip=	Set Clip Value
clock=	Set Clock rate (no longer needed)
ed=	Enable Magnetic Distortion Alarm (caused confusion; new method is superior)
fast=	Enable Fast Sampling (no longer needed)
sao=	Select Analog Output Option (no analog output available)
save	Unit automatically saves any changed settings (no longer needed)
serialp=	Lower Power Serial Consumption (specific to older chip)
cal3	Three Point Calibration (not used) [Responds with E010]
CTRL+e	Keystroke echo is no longer available. The command to turn it off, CTRL+n is also no longer available.

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