

ADT761 CommandsSet V1.0

No.	P	Command	C0	C1	C2	C3	Return (A:F:CMD:...)	Description
1	R	OTEST	-	-	-	-	1-success.	CommunicationHand.
2	R	OBATSTAT	-	-	-	-	0-Offline;1-Online	Read state ofbattery.
3	R	MBATVOLTAGE	-	-	-	-	V[sum]:V[1]:V[2]:V[3]:V[4]:V[5]:V[6]	Read voltage ofbattery.
4	R	MVALVETEMP	-	-	-	-	<T1>:<T2>:°C	Read the temperature of inlet valve and releasevalve
5	R	CPV	-	-	-	-	<Pressurevalue>:KPA	Read the pressure value of the inner pressure module. The pressure unit is alwayskPa.
6	R	ORANH	-	-	-	-	<LP>:<HP>:KPA	Read the range of high pressuremodule.
7	R	ORANL	-	-	-	-	<LP>:<HP>:KPA	Read the range of low pressuremodule.
8	R	ORANE	-	-	-	-	<LP>:<HP>:KPA	Read the range of external pressuremodule.
9	R	CSTABSTAT	-	-	-	-	0-notstable;1-stable	Read pressure stability.
10	R	MSUPPLYPRESSURE	-	-	-	-	<pressurevalue>:KPA	Read the inlet pressurevalue.
11	R	OSETPRANGE	-	-	-	-	<Low>:<High>:KPA	Read the low limit and high limit of the pressurecontrol range.
12	R	OCTRLPRESSUR	-	-	-	-	<Low>:<High>:KPA	Read the low limit and high limit of the pressure controlrange.
13	R	CSLEWRATE	-	-	-	-	0-high;1-medium; 2-slow.	Read the pressure slewrate.
14	R	CSTABVALUE	-	-	-	-	<Value>	Read the pressure control stability.
15	R	CSTABDELAY	-	-	-	-	<Value>:S	Read the delay time of pressurestability.
16	R	CSTABBEEP	-	-	-	-	0-disable;1-enable	Read the beep setting of pressurestability.
17	R	CVENTSTAT	-	-	-	-	0-diabile;1-enable	Read the setting of autovent.
18	R	CVENTVALUE	-	-	-	-	<pressurevalue>:KPA	Read the value of atuoment.
19	R	CSWDAMP	-	-	-	-	<Value>	Read the switch damping time.
20	R	OHMPMBITS	-	-	-	-	<digits=4/5/6>	Read the display digits of high pressuremodule.
21	R	OLPMBITS	-	-	-	-	<digits=5/6>	Read the display digits of low pressuremodule.
22	R	OEPMBITS	-	-	-	-	<digits=5/6>	Read the display digits of external pressuremodule.
23	R	OMEABITS	-	-	-	-	<digits=4/5/6>	Read the display digits of electrical measurements.

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24	R	OSMABITS	-	-	-	-	<digits=4/5>	Read the display digits of currentoutput.
25	R	OLED BRIGHT	-	-	-	-	<brightness=0,10,20...100>	Read the screenbrightness.
26	R	OSYSTIME	-	-	-	-	<HH>:<MM>:<SS>	Read the system time.
27	R	OSYS DATE	-	-	-	-	<YYYY>-<MM>-<DD>	Read the systemdate.
28	R	OSYS DATE FAT	-	-	-	-	0/1/2	Read the system date format (0-yyyy/mm/dd;1-mm/dd/yyyy;2-dd/mm/yyyy).
29	R	OLANG INDEX	-	-	-	-	0,1,....	Read the index of the current language(please see the language list in Setup).
30	R	O24POWER	-	-	-	-	0-disable;1-enable;	Read the status of DC 24Vpower.
31	R	OTYPE	-	-	-	-	<typename>	Read the type name of the calibrator. Max length=12.
32	R	OSOFTVER	-	-	-	-	<Version>	Read the system softwareversion.
33	R	ODEVTAG	-	-	-	-	<Tag>	Read the tag of the calibrator. Max length=12.
34	R	ODEVSN	-	-	-	-	<SN>	Read the serial number of the calibrator. Max length=12.
35	R	OMFRDATE	-	-	-	-	<YYYY-MM-dd>	Read the manufactureddate.
36	R	OIPMUNIT	-	-	-	-	<unit index>:<unitcharacter>	Read the pressure unit of the current inner pressure module. suchas: <1>:<KPA>
37	R	MITEM	-	-	-	-	<measurementitem>	Read the current measurement item. (MA=current, V=voltage, SW=switch Test, HPM=high pressure module, LPM=low pressure module, EPM= external pressure module,HART)
38	R	SITEM	-	-	-	-	<source item>	Read the current source item. (MA=current, HPM=high pressure module, LPM=low pressure module, EPM=external pressure module)
39	R	OEPMUNIT	-	-	-	-	<Pressure UnitIndex>	Read the unit of the current external pressure module (only is valid when external pressure module isonline).
40	R	MVAL	-	-	-	-	<Value>:<Unit>	Read the measurement value andunit.
41	R	SMAPOWER	-	-	-	-	0-External power supply; 1-Internal powersupply	Read the power supply mode of the currentoutput.
42	R	CSV	-	-	-	-	<setvalue>:<unit>	Read the set value tocontrol.
43	R	HPMVALUE	-	-	-	-	<pressure value>:<unit>	Read the pressure value of the high pressuremodule.
44	R	LPMVALUE	-	-	-	-	<pressure value>:<unit>	Read the pressure value of the low pressuremodule.
45	R	EPMVALUE	-	-	-	-	<pressure value>:<unit>	Read the pressure value of the external pressuremodule.

46	R	SMAVALUE	-	-	-	-	<currentvalue>:<MA>	Read the output currentvalue.
47	R	OPMINFO	-	-	-	-	<pressure type=G/A/D>:<Accuracy%>	Read information of the external pressuremodule.
48	R	OADDRESS	-	-	-	-	<address>	Read the serial communicationaddress.
49	R	OKEYVALUE	-	-	-	-	<keyvalue>	Read the key press value. (the value is null when no keypress).
50	R	OHARTENABLED	-	-	-	-	0-no connected,1-connected.	Read the connection state of the hartdevice.
51	R	OHARTPARASET	-	-	-	-	(Tag、PV unit、PV LRV、PV URV 、Damping time、Transfer function、Description、Message 、Manufactured date、Polling address、Sensor SN、Sensor low limit、Sensor high limit、Sensor min span、Manufacturer、 Device type、Device id、Write protect、Alarm、The number of preambles、HWversion、SW	Read the information of the connected hartdevice.
52	R	OCURRENTIPM	-	-	-	-	0-high pressure range; 1-low pressure range	Read the selected inner pressure module.
53	R	OHMPMENABLED	-	-	-	-	0-noconnection,1-conntection	Read the connection state of the high pressuremodule.
54	R	OLPMENABLED	-	-	-	-	0-noconnection,1-conntection	Read the connection state of the low pressuremodule.
55	R	OEPMENABLED	-	-	-	-	0-noconnection,1-conntection	Read the connection state of the external pressuremodule.
56	R	CTUNE	-	-	-	-	255-not tuning 0-tune fail ;1-tune success;2-istuning.	Read the tunestate.
57	R	MSWDATALAST	-	-	-	-	<the switch value from close to open >:<the switch value from open toclose>:<unit>	Read the trigger data of theswitch.
58	R	OTRIPLE	-	-	-	-	0-Disable;1-Enable	Read the screen display state. (0: double-screen display,1:three- screen display)
59	R	OHMPMINFOR	-	-	-	-	<pressuretype>:<accuracy>	Read the information of the high pressure range. accuracy ispercent value.

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60	R	OLPMINFOR	-	-	-	-	<pressuretype>:<accuracy>	Read the information of the low pressure range. accuracy is percent value.
61	R	OATMO	-	-	-	-	<atmospheric pressurevalue>:KPA	Read the atmospheric pressurevalue.
62	R	ORUNKIND	-	-	-	-	0-standby;1-control;2-vent	Read the state of currentcontrol.
63	R	OHARTVARIABLE	C0	-	-	-	<value>	Read the hart process variable value.(C0:0-PV;1-AO;2-Per;3-CA)
64	R	CPFORMSTAT	-	-	-	-	0-Guage;1-Absolute.	Read the pressure type of the controlsetting.
65	W	CHIGHPRESSURE	C0	-	-	-	OK	Write the high limit of the pressure controlsettings.
66	W	CLOWPRESSURE	C0	-	-	-	OK	Write the low limit of the pressure controlsettings.
67	W	CSLEWRATE	C0	-	-	-	OK	Write pressure slew rate(C0:0-high;1-medium;2-slow)
68	W	CSTABVALUE	C0	-	-	-	OK	Write pressurestability.
69	W	CSTABDELAY	C0	-	-	-	OK	Write delay time of the pressurestability.
70	W	CSTABBEEP	C0	-	-	-	OK	Write the beep setting of the pressurestability.
71	W	CVENTSTAT	C0	-	-	-	OK	Write the state of the autovent.(C0:0-disable;1-enable)
72	W	CVENTVALUE	C0	-	-	-	OK	Write the value of the auto vent. (C0:pressurevalue)
73	W	CSWDAMP	C0	-	-	-	OK	Write the switch damping time. (C0:damping time)
74	W	CSWITCHRANGE	C0	-	-	-	OK	Switch pressure range. (C0:0-high pressure range; 1-low pressure range)
75	W	CSV	C0	C1	-	-	OK	Write the pressure settingvalue. <C0:the pressure value to set>:<C1:unit uppercase characters, such as:PA、KPA、MPA、PSI、BAR、MBAR、INHG、HG、INH2O、H2O、KGF. C1 is option, if C1 is null, the setting value use currentunit)
76	W	CSTANDBY	C0	-	-	-	OK	Write control state(C0:0-standby;1-control)
77	W	CVENT	C0	-	-	-	OK	Write ventstate(C0:0-close;1-open)
78	W	OHMPMBITS	C0	-	-	-	OK	Write the display digits of the high pressure module.(C0:4/5/6)
79	W	OLPMBITS	C0	-	-	-	OK	Write the display digits of the low pressure module.(C0:5/6)
80	W	OEPMBITS	C0	-	-	-	OK	Write the display digits of the external pressure module.(C0:5/6)
81	W	OMEABITS	C0	-	-	-	OK	Write the display digits of electrical measurement.(C0:4/5/6)
82	W	OSMABITS	C0	-	-	-	OK	Write the display digits of current output.(C0:4/5)
83	W	OLED BRIGHT	C0	-	-	-	OK	Write the screen brightness. (C0:0/10/20/30/40/50/60/70/80/90/100)
84	W	OSYSTIME	C0	-	-	-	OK	Write system time.(C0:HHMMSS)

85	W	OSYSDATE	C0	-	-	-	OK	Write system date,(C0:YYYYMMDD)
86	W	OSYSDATEFAT	C0	-	-	-	OK	Write system date format. (C0:[0-yyyy/mm/dd:1-mm/dd/yyyy;2-dd/mm/yyyy])
87	W	OLANGINDEX	C0	-	-	-	OK	Write system language (C0: 0-chinese; 1-english;2:germany;.....)
88	W	O24POWER	C0	-	-	-	OK	Write the state of DC24V power. (C0:0--disable;1-enable)
89	W	SMAPOWER	C0	-	-	-	OK	Write the supply power mode of current output. (C0: 0-external power supply; 1-internal powersupply)
90	W	MAZERO	-	-	-	-	OK	Zero current measurement.
91	W	VZERO	-	-	-	-	OK	Zero voltage measurement.
92	W	PINTHZERO	-	-	-	-	OK	Zero pressure for high pressure range.
93	W	PINTLZERO	-	-	-	-	OK	Zero pressure for low pressure range.
94	W	PEXTZERO	-	-	-	-	OK	Zero pressure for external pressure module.
95	W	ORESET	-	-	-	-	OK	Restart calibrator.
96	W	OSHUTDOWN	-	-	-	-	OK	Shutdown calibrator. (this command is not support if calibrator supplied by AC power)
97	W	SMAVAL	C0	-	-	-	OK	Write the current output value. (C0:outputvalue)
98	W	OGODESKTOP	-	-	-	-	OK	Return to desktop.
99	W	OCLSKEYS	-	-	-	-	OK	Clear all presskeys.
100	W	OELSNAPFILE	C0	-	-	-	OK	Delete snapshot file according to the index. (C0-the index of the snapshot file, index start from 0)
101	W	OSNAPFILE	-	-	-	-	OK	Capture snapshot. (if the memory is full, return error code)
102	W	OFACTORY	C0	-	-	-	OK	Factory restore. (C0: password is 811811)
103	W	OTESTBEEP	-	-	-	-	OK	Buzz test.
104	W	CTUNE	C0	-	-	-	OK	Set the tuning to start or stop. (C0:0-stop;1-start)
105	W	OTASKFORMAT	-	-	-	-	OK	Format task storage memory.
106	W	OSNAPFORMAT	-	-	-	-	OK	Format snapshot storage memory.
107	W	MITEM	C0	-	-	-	OK	Set as the current measurement item. (C0:0=current; 1=voltage; 2=switch; 3=high pressure module; 4=low pressure module; 5=external pressure module)

108	W	SITEM	C0	-	-	-	OK	Set as the current output item. (C0:0=current; 1=high pressure module; 2= low pressure module; 3=external pressuremodule)
109	W	OIPMUNIT	C0	-	-	-	OK	Write the unit of the inner pressure module. (C0:unitindex)
110	W	OEPMUNIT	C0	-	-	-	OK	Write the unit of the external pressure module.(the command is only valid for the external pressure module is connected). (C0:unitindex)
111	W	OCLSSWDATA	-	-	-	-	OK	Delete all trigger data of switchtest.
112	W	OTRIPLE	C0	-	-	-	OK	Write the screen display state. (0: double-screen display,1:three-screen display)
113	W	OKEYVALUE	C0	-	-	-	OK	Write a key value to simulate the key ispressed. {C0: 0="0"; 1="1"; 2 ="2"; 3="3"; 4="4"; 5="5"; 6="6"; 7="7";8="8"; 9="9"; 10="+/-"; 11="."; 12="F1"; 13="F2"; 14="F3";15="F4"; 16="Up"; 17="Down"; 18="Left"; 19="Right";24="HART"; 25="StandBy"; 26="Setup"; 27="Save"; 28="Task"; 29="Vent"; 30="Enter";31="Esc"}
114	W	OHARTPARASET	C0	C1	-	-	OK	Write paramets of the connected hartdevice. <C0:0-9[Tag、 PV Unit、 PV LRV、 PV URV、 Damping time、 Transfer function、 Description、 Message、 Manufactured date、 Polling address>:<C1:newvalue>
115	W	OMEAPOWSTAT	C0	-	-	-	OK	Write the state of measurement power.(C0:0-close;1-open)]
116	W	OSRCPOWSTAT	C0	-	-	-	OK	Write the state of output power.(C0:0-close;1-open)
117	W	CPFORMSTAT	C0	-	-	-	OK	Write the pressure type of the pressure contreol settings. (C0:0-Guage;1-Absolute)
118	W	OFACATM	-	-	-	-	OK	Barometric pressure to restore the factoryvalue.

Errorcode:

1	1001	command toolong.
2	1002	parameter too many(>4).
3	1003	the command does notexist.
4	1004	passworderror.
5	1005	the system current state does not support thecommand.
6	1006	the parameter format isillegal.
7	1007	the value of the parameter is overrange.

Txformat:

address:P:COMMAND:[C0]:[C1]:[C2]:[C3].

Note: 255 is super address, if 255 used as the address, the serial address in serial communication setting can be ignored.

Rxformat:

address:F:COMMAND:<return data or errorcode>