

# Additel 680 Commands Set

## //1. General command

Command	Description
{0,'R',"ORAN",0},	read PV range, unit, sensor type, GAD accuracy(0.01% scale)
{1,'R',"OFRAN",0},	read sensor's range
{2,'W',"OZERO",0},	zero
{3,'W',"MZERO",0},	cancel pressure zero, return OK
{4,'W',"OUNIT",1},	switch pressure unit
{5,'R',"OUINF",0},	read pressure unit information
{6,'R',"MRATE",0},	read measuring speed
{7,'W',"MRATE",1},	set measuring speed 0-5 is corresponding to 8/1,3/1,1/1,1/15,1/30,1/60

## //2. Calibration command

Command	Description
{8,'W',"OCPS",0},	Start calibration
{9,'W',"OCP",3},	Calibrate the "zero" point
{10,'W',"OCPOK",1},	Calibration success, quit
{11,'W',"OFALT",1},	Recover factory default,
	=0 Cancel calibration      =1 Recover calibration data
{12,'W',"OCRAN",3},	set up range transfer value,
	Parameter: lower limit value: upper limit value: unit
{13,'W',"OSRAN",0},	Run the range transferring
{14,'W',"OCFS",0},	Start factory calibration
{15,'W',"OCF",3},	Factory calibration standard points
{16,'W',"OCFOK",1},	Factory calibration success, quit
{17,'W',"OCFCL",1},	Cancel factory calibration
{18,'W',"OFILT",1},	Set the coefficient of first order filter =0; non-filtering=1-9:0.1 0.2 0.3 ...0.9
{19,'R',"OFILT",0},	Read first order filter's coefficient
{20,'W',"OAVG",1},	Set up average value measuring sample and 3-10
{21,'R',"OAVG",0},	Read the sample sum of average measuring value
{22,'R',"OTYPE",0},	Read the type

{23,'R',"OVER",0},	Read software version number
{24,'R',"OPRDA",0},	Read production date, return production date
{25,'R',"OCODE",0},	Read device series number, return device's series number
{26,'R',"MRMD",0},	Read pressure value, pressure unit
{27,'R',"OTEMP",1},	Read temperature, =0 read sensor's temperature,
	=1Read device's temperature
{28,'R',"OADDR",0},	Read address
{29,'W',"OADDR",1},	Write address
{30,'W',"OBAUD",1},	Write baud rate
{31,'W',"OTYPE",2},	Write device's type, standard device's type are : ConST212, Additel681, Additel682, Additel683
{32,'W',"OPRDA",1},	write production date
{33,'W',"OCODE",1},	write device series number, no more than 20 character.
{34,'W',"OACCY",1},	set up device's accuracy, parameter has 20, 10, 5, 2; precision division start from 0.01%.
{35,'W',"OCONT",1},	Send data continuously
{36,'W',"ORPP",0},	Device soft reset
{37,'W',"ERAS",1},	Erase the Ferroelectric instruction, input the code 211273
{38,'W',"OLEDC",1},	Cancel the writing of backlight comparison rate 0%-100%, return ok.
{39,'W',"OBLAC",1},	Open/Close backlights
{40,'W',"OBLAT",1},	Write the auto closing time of backlight
{41,'R',"OBATV",0},	Read battery voltage status
{42,'R',"OPEAK",0},	Read pressure peak value
{43,'W',"OPKZE",0},	Cancel pressure peak value
{44,'W',"OKEY",1},	Open/ Close keypad
{45,'R',"OKEY",0},	Read last input value
{46,'W',"OKEYC",0},	Erase last input value
{47,'W',"OCALD",1},	Set up/ Cancel three-points calibration, =0 cancel mandatory three-points calibration, =1 mandatory three-points calibration
{48,'R',"OCALD",0},	Read mandatory three-points calibration symbol.
{49,'W',"OFRUN",1},	Setup file record run and stop, =0 stop =1 run
{50,'W',"OFTIM",1},	Setup file recording interval
{51,'R',"OFSTA",0},	Read file log status, logging interval, used logging space, total records.
{52,'W',"OFDEL",1},	Delete all files

{53,'R',"OFSPA",0},	Request sending files' total bytes number and package numbers, total recording number.
{54,'W',"OFSAP",1},	Send file =0 stop sending, =1 sending
{55,'R',"OFSSP",1},	Sending all files' appointing package
{56,'W',"CUNIT",1},	Setup customized pressure unit
{57,'R',"CUNIT",0},	Read customized pressure unit setup
{58,'W',"RFRATE",1},	Setup wireless checking rate, parameter is time.
{59,'R',"MRFDB",0},	Read wireless signal strength
{60,'R',"ORTC",0},	Read RTC time
{61,'W',"ORTC",1},	Read RTC time
{62,'R',"AUTOZ",0},	Read auto zero status
{63,'W',"AUTOZ",1},	Setup auto zero; =1auto zero =0 no auto zero
{64,'W',"OTEST",1},	Setup if auto defective after powering on
{65,'R',"OVERI",0},	Read overpressure records, total numbers, powering on times, current digital
{66,'W',"OTIO",1},	Measure wireless I/O port
{67,'W',"RFTEST",2},	Setup CC2530 measure mode, mode (1 receive, 2 non-modulation transmit, 3 modulation transmit), as appointing signal, 0dbm: enter appoint measuring mode.
{68,'R',"DANGP",0},	Read dangerous pressure records
{69,'W',"DANGP",0},	Erase dangerous pressure records
{70,'R',"TAG",1},	Read TAG
{71,'W',"TAG",2},	Write TAG
{72,'W',"UPDATE",0},	Series port upgrade command, the device will be auto power on and enter into waiting # status.
{73,'W',"TSTMEM",0},	AT Test command, initializing the AT contents of all received commands
{74,'W',"SHUTRF",0},	Close wireless
{75,'W',"TARE",2},	tare function, parameter refer pressure, pressure unit
{76,'R',"TARE",0},	Read TARE value, pressure range's unit as standard
{77,'W',"UNCOE",1},	Write customized pressure unit switching coefficient as kPa
{78,'R',"UNCOE",0},	Read pressure unit switching coefficient
{79,'W',"AUTOS",1},	Auto logging data format
{80,'W',"TSTLCD",1},	LCD Segment code fully open
{81,'W',"OFFSET",1},	Setup zero range as 0.1%-100%FS
{82,'R',"OFFSET",0},	Read zero range as 0.1%-100%FS
{242,'W',"OSENS",0},	Forward commands, setup sensor's type

{243,'W',"MRATE",0},	Forward commands, setup refresh rate
{244,'W',"OCPOK",0},	Forward commands, user's calibration is effective
{245,'W',"OFALT",0},	Forward commands, recover setup the user's calibration
{246,'W',"OCRAN",0},	Forward commands, setup PV range
{247,'W',"OSRAN",0},	Forward commands, recover sensor's range
{248,'W',"OPCAL",0},	Forward commands, calculate the coefficient
{249,'W',"NC", 0},	Forward commands, universally forward won't be operate

};

/\*

Command	Description
1000	Receive buffer area overflow
1001	Bypass the menu to operate
1002	No this amplification factor
1003	No this constant current
1004	Digital character string includes illegal characters
1005	The pressure unit is illegal
1006	The pressure range is illegal
1007	Parameter is not correct
1008	The device didn't accredit the pressure range
1009	The total compensated temperature numbers are over the range
1010	The temperature compensated reference is over the range
1011	The temperature compensated dot mark is over the range
1012	The linearity dot mark is over the range
1013	The linearity dot mark is over the range
1014	The work mode is wrong
1015	The device's SN is too long
1016	The data can't be zero
1017	The parameter number is not enough
1018	No this instruction
1019	The operation code is wrong
1020	r/w wrong
1021	The file code is over the range
1022	The battery's detective temperature value is too lower
1023	The pressure unit name is wrong
1024	The pressure unit is wrong
1025	The series address is over the range 1-255
1026	Baud rate is wrong
1027	The on/off time of 24V is wrong
1028	The tag is wrong

1029	The parameter is too long
1030	FM logger has wrong calibration
1031	AT Logger has wrong calibration
1200	The communication errors with digital sensors

\*/