# ADT686/673Commands set

## 1 Commands instruction

（1）each command includes two parts: **mnemonic** and **parameter**. The **mnemonic** and **parameter** are separated by a space;

For example pressure:filter 0|1，<numeric>[,<numeric>]，0|1 refers to the parameter description specific optional option, <numeric> is the parameter to be input，[,<numeric>] refers to the additional parameter when the parameter is set to 1. if set the pressure filter function by this command，enter pressure:filter 1，50,5

（2）about the parameter

Each parameter in the instruction set is marked with**<>** (do not enter angle brackets when converting to actual instructions) and separated by commas.

(3) terminator

The scpi command must include a command terminator, which can be one of the follows (excluding double quotation marks): "\r\n", "\r", "\n" or "\0".



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### 1.1 IEEE 488.2 common commands

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1 | *cls | Clear the following registers:<br>Standard event register;<br>Query event register;<br>Operation event register;<br>Status byte register;<br>Error queue. | - | - |
| 2 | *idn? | Instrument identification query, return 2 parts of data:<br>A. Product serial number;<br>B. Sofware version; | - | Product serial number,sofware version |
| 3 | *rst | Program reset | - | - |

### 1.2 Pressure commands

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1. | Pressure? [all] | Read current pressure value | Option all: reading barometric pressure | Pressure value, pressure unit, pressure type[,barometric pressure, barometric unit, barometric pressure type] |
| 2. | Pressure:unit? | Read current pressure unit | None | Unit name |
| 3. | Pressure:unit<numeric>\|<unquostr> | Set current pressure unit | Unit id or unquoted unit name | None |
| 4. | Pressure:ptype? | Read current pressure type | None | G: gauge pressure<br>A: absolute pressure<br>D: differential pressure |



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| | | | | |
|---|---|---|---|---|
| 5. | Pressure:ptypeg\|a\|d | Set current pressure type | G：gauge pressure<br>A：absolute pressure<br>D：differential pressure | None |
| 6. | Pressure:online? | Whether the pressure module is online? | None | 0：offline<br>1：online |
| 7. | Pressure:range? [<unquostr>] | Read pressure module's range | None, 0 or 1 | None or 0: lower limit, upper limit, unit id, pressure type(g/a/d);<br>1: lower limit, upper limit, unit name, pressure type(g/a/d) |
| 8. | Pressure:zero | Pressure module zero | None | None |
| 9. | Pressure:resolution? | Read pressure resolution | None | 4\|5\|6 |
| 10. | Pressure:resolution<numeric> | Set pressure resolution | 4\|5\|6 | None |
| 11. | Pressure:filter:enable? | Read filter status | None | 0：disable<br>1：enable |
| 12. | Pressure:filter:enable0\|1 | Set filter type | 0：disable<br>1：enable | None |
| 13. | Pressure:filter? | Read filter parameter | None | Two returns format:<br>First-order filter: 0, first-order filter coefficient<br>Average filter: 1, de-extreme value pairs, filter window size. |
| 14. | pressure:filter 0\|1,<numeric>[,<numeric>] | Set filter type | Two returns format:<br>First-order filter: 0, first-order filter coefficient<br>Average filter: 1, de-extreme value pairs, filter window size. | None |



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|---|---|---|---|---|
| 15. | Pressure:stable? | Read pressure stable status | None | 0：not stable<br>1：stable |
| 16. | Pressure:stable:enable? | Read the status of the stable time | None | 0：disable<br>1：enable |
| 17. | Pressure:stable:enable0\|1 | Set the status of the stable time | 0：disable<br>1：enable | None |
| 18. | Pressure:stable:configure? | Read pressure stable status parameter | None | Separated by comma:<br>Stability, stable time |
| 19. | Pressure:stable:configure<numeric>,<numeric> | Set pressure stable status parameter | Stability(0.005-1)，stable time(1-60 s) | None |
| 20. | Pressure:peak:enable? | Read pressure peak status | None | 0：disable<br>1：enable |
| 21. | Pressure:peak:enable0\|1 | Set pressure peak status | 0：disable<br>1：enable | None |
| 22. | Pressure:tare:enable? | Read pressure tare function status | None | 0：disable<br>1：enable |
| 23. | Pressure:tare:enable0\|1 | Set pressure tare function status | 0：disable<br>1：enable | None |
| 24. | Pressure:tare:configure? | Read pressure tare value | None | Pressure tare value |
| 25. | Pressure:tare:configure<numeric> | Set pressure tare value | Tare value | None |
| 26. | Pressure:clrdangp | Clear overpressure record | None | None |
| 27. | Pressure:dangp? | Read overpressure record | None | Overpressure record |
| 28. | Atm? [all] | Read barometric pressure value all and read process treatment value | None | Final barometric value<br>All with the original value, linear value, tare value, |



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|---|---|---|---|---|
| | | | | filter value and final value. (with pressure type when switch pressure is supported) |
| 29. | Measure? | Read the measure data | None | Type 1+ pressure value+ pressure unit id+ pressure type+ type 2+ barometric pressure+ barometric unit id+ type 3+ temperature+ temperature unit id+ type 4+ electric measurement+ electric measurement id |

### 1.3 Electric measure commands

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1. | Electricity:measure? [cal] | Read current measured value | None or cal | 1. none<br>Item no,measuredvalue,unit name<br>2. cal<br>Item no,final measured value,unitname,single-point fixed value,multi-point fixed value,linar fixed value,origin value<br>Note:<br>Item no:<br>1. current 2. voltage 3. switch 4. hart |
| 2. | Electricity:function? | Read current measured item | None | Item no[, item description]<br>Item no:<br>1. current 2. voltage 3. switch 4. hart<br>Switch:<br>0.mechanical switch 1.npn switch 2.pnp switch |
| 3. | Electricity:function<numeric>[,<numeric>] | Set current measured item | Item no:<br>1. current 2. voltage 3. switch 4. | None |



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|---|---|---|---|---|
| | | | hart<br>Switch:<br>0.mechanical switch 1.npn switch<br>2.pnp switch | |
| 4. | Electricity:24venable? | Read 24v status | None | 0：disable<br>1：enable |
| 5. | Electricity:24venable 0\|1 | Set 24v status | 0：disable<br>1：enable | None |
| 6. | Electricity:zero | Electric measure zero | None | None |
| 7. | Electricity:czero | Electric measure cancel zero | None | None |
| 8. | Electricity:switch:actions? | Read switch test act value | None | Separated by space：<br>Act valueunit name |
| 9. | Electricity:filter:enable? | Read filter status | None | 0：disable<br>1：enable |
| 10. | Electricity:filter:enable 0\|1 | Set filter status | 0：disable<br>1：enable | None |
| 11. | Electricity:filter? | Read filter parameter | None | First-order filter: 0, first-order filter coefficient<br>Average filter: 1, de-extreme value pairs, filter window size. |
| 12. | Electricity:filter 0\|1,<numeric>[,<numeric>] | Set filter parameter | First-order filter: 0, first-order filter coefficient<br>Average filter: 1, de-extreme value pairs, filter window size. | None |
| 13. | Electricity:scale:enable? | Read scaling status | None | 0：disable<br>1：enable |



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|---|---|---|---|---|
| 14. | Electricity:scale:enable 0\|1 | Set scaling status | 0：disable<br>1：enable | None |
| 15. | Electricity:scale? | Read scaling configuration | None | Transfer function：0linar 1 square root<br>Input range<br>Output range<br>Decimal digits of output range |
| 16. | Electricity:scale<br>0\|1\|2,<numeric>,<numeric>,<numeric>,<numeric>,<unquostr>,<numeric> | Set scaling configuration | Transfer function, input lower limit, input upper limit, output lower limit, output upper limit, output units, decimal digits of output range | None |
| 17. | Electricity:minmax:enable? | Read min/max function status | None | 0：disable<br>1：enable |
| 18. | Electricity:minmax:enable 0\|1 | Set min/max function status | 0：disable<br>1：enable | None |

### 1.4System commands

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1. | System:error? | Read the execute error information | None | A message at the stack top of the error |
| 2. | System:lock? | Read the screen lock status | None | 0= unlock<br>1= lock |
| 3. | System:lock0\|1\|on\|off | Set the screen lock status | 0= unlock<br>1= lock | None |
| 4. | System:version?<br>[\"application\"\|\"os:firmware\"\|\"os:hardware\"\|\"wifi:firmware\"\|\"bt:firmware\"\|\"hart:dd\"] | Read the device version | "application" = host version，<br>"os:firmware" system firmware version，<br>"os:hardware" system hardware | Default:<br>No parameter= return host version<br>With parameter= return corresponding version |



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|---|---|---|---|---|
| | | | version,<br>"wifi:firmware" wifi version<br>"bt:firmware" bluetooth version<br>"hart:dd" hartdd file version | |
| 5. | System:date? | Read system date | None | Date (yyyy,mm,dd) |
| 6. | System:date<numeric>,<numeric>,<numeric> | Set system date | Year, month, day | None |
| 7. | System:time? | Read system time | None | Time (hh,mm,ss) |
| 8. | System:time<numeric>,<numeric>,<numeric> | Set system time | Hour, minute, second | None |
| 9. | System:time:format? | Read system time format | None | Two values, separated by comma,<br>24/12 hours<br>Current time zone |
| 10. | System:time:format<boolean>,<numeric> | Set system time format | Two parameters, separated by comma,<br>24/12 hours<br>Current utc time zone | None |
| 11. | System:tbeep? | Read the touch beep status | None | 0 disable<br>1 enable |
| 12. | System:tbeep<boolean>\|on\|off | Set the touch beep status | 0\|off disable<br>1\|on enable | None |
| 13. | System:pbeep? | Read the prompt beep status | None | 0 disable<br>1 enable |
| 14. | System:pbeep<boolean>\|on\|off | Set the prompt beep status | 0\|off disable<br>1\|on enable | None |
| 15. | System:orbeep? | Read the over range beep status | None | 0 disable<br>1 enable |



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| | | | | |
|---|---|---|---|---|
| 16. | System:orbeep<boolean>\|on\|off | Set the over range beep status | 0\|off disable<br>1\|on enable | None |
| 17. | System:stbeep? | Read the stable beep status | None | 0 disable<br>1 enable |
| 18. | System:stbeep<boolean>\|on\|off | Set the stable beep status | 0\|off disable<br>1\|on enable | None |
| 19. | System:shbeep? | Read the snapshot beep status | None | 0 disable<br>1 enable |
| 20. | System: shbeep<boolean>\|on\|off | Set the snapshot beep status | 0\|off disable<br>1\|on enable | None |
| 21. | System:volume? | Read system volume percentage | None | Volume percentage |
| 22. | System:volume<numeric> | Set system volume | Volume percentage | None |
| 23. | System:language? | Read current language | None | Current language |
| 24. | System:language<unquostr>[,<boolean>] | Set current language | Parameter: language zh-cn<br>Optional: restart or not, restart by default | None |
| 25. | System:language:config? | Read the list of supported languages | None | Lamguage list |
| 26. | System:language:config<quotestr> | Set the list of supported languages | Language list, separated by comma | None |
| 27. | System:brightness? Percentage\|value | Read the screen brightness | Percentage or value | Screen brightness |
| 28. | System:brightnesspercentage\|value,<numeric> | Set the screen brightness<br>Range:<br>Value 200-4096 | 1: percentage or value<br>2: brightness | None |



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| | | Percentage 0-100<br>When the set value is greater than 4096 or 100%, it will be set to the greatest brightness, when the set value is lower than 200 or 0%, it will be set to the lowest brightness. | | |
| 29. | System:battery:online? | Read the battery online status | None | 1 : battery online<br>0 : battery offline |
| 30. | System:battery:status? | Read the battery status | None | 0：battery communication abnormal<br>1：battery communication ok |
| 31. | System:battery:infomation? | Read the current battery level, voltage, current | None | Current battery level, total level (mah), voltage (v), current (>0 indicates charging, <0 indicates discharging) |
| 32. | Display:acloud:captcha 0\|1,<unquostr>,<numeric> | Show or close acloud service verify code | 1：<br>0-close the verify code, 1-show the verify code<br>2：string, verify code text<br>3：number, time-out time | None |
| 33. | System:ble<boolean>\|on\|off | Bluetooth on/off | 1 or on：on<br>0 or off：off | No return |
| 34. | System:ble:status? | Read bluetooth status | None | 0：unkown；<br>1：booted；<br>2：initialized<br>3：sleep<br>4：broadcasting |



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|---|---|---|---|---|
| | | | | 5：connected |
| 35. | System:ble:info? <unquostr> | Read bluetooth information | Name: return bluetooth version information<br>Mac：return bluetooth mac address<br>Version：return bluetooth firmware version | See the parameter |

### 1.5Data management commands

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1. | Datamanager:count? Leaktest\|snapshot\|datalogger\|psvtest | Read data amount | Leaktest：leak test<br>Snapshot：snapshot<br>Datalogger：data log<br>Psvtest:psv test | Data amount |
| 2. | Datamanager:info? Leaktest\|snapshot\|datalogger\|psvtest,<numeric>,<numeric> | Read data related information | 1：leaktest：leak test<br>Snapshot：snapshot<br>Datalogger：data log<br>Psvtest: psv test<br>2：start，start point<br>3：count ，length | Information |
| 3. | Datamanager:delleaktest\|snapshot\|datalogger\|psvtest,<unquostr> | Delete test result | 1：leaktest：leak test<br>Snapshot：snapshot<br>Datalogger：data log<br>Psvtest: psv test<br>2：the file path that perform the deletion (without quote mark) | None |
| 4. | Datamanager:length? Leaktest\|snapshot\|datalogger\|psvtest,data\|im | Read data length | 1：leaktest：leak test<br>Snapshot：snapshot | Data length |



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|---|---|---|---|---|
| | age,<unquostr> | | Datalogger：data log<br>Psvtest: psv test<br>2：read data file or image<br>File name (without quote mark) | |
| 5. | Datamanager:data?<br>Leaktest\|snapshot\|datalogger\|psvtest,data\|image,<unquostr>,<numeric>,<numeric> | Read data in designated location | File name (without quote mark), start point, read data length | String format |

### 1.6 calibration commands

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1. | Calibration:electricity:data 123456,<numeric>,<numeric>,<quotestr>,<quotestr>,<numeric>,<numeric>,<numeric> | Write electric calibration data | 1：0-linar<br>1-multi-point<br>2： 0-ma measure<br>1-30v measure<br>Calibration point（quoted string，separated by comma)<br>Stardard point（quoted string，separated by comma)<br>Year, month, day | None |
| 2. | Calibration:electricity:data? 123456,<numeric>,<numeric> | Write electric calibration value | 1：0-linar<br>1-multi-point<br>2： 0-ma measure<br>1-30v measure | Multi-point: calibration point list, actual value list, year, month, day<br>Single point: offset value, year, month, day |
| 3. | Calibration:electricity:ereset 123456,<numeric>,<numeric> | Reset electric multi-point calibration data | 1：0-linar<br>1-multi-point<br>2： 0-ma measure | None |



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|---|---|---|---|---|
| | | | 1-30v measure | |
| 4. | Calibration:barosensor:data? 123456,<numeric> | Read barometric sensor calibration data | 0-two points<br>1-offset<br>2-demarcate | With calibration data：standard value 1，measure value 1，standard value 2，measure value 2，year, month, day<br>Without calibration data：no data! |
| 5. | Calibration:barosensor:data 123456,<numeric>,<quotestr>,<quotestr>,<numeric>,<numeric>,<numeric> | Write barometric sensor calibration data | 1: 0-two points<br>1-offset<br>2-demarcate<br>2：standard value(quoted string，separated by comma)<br>3：measure value(quoted string，separated by comma)<br>Year, month, day | None |
| 6. | Calibration:barosensor:preset 123456,<numeric> | Reset barometric sensor calibration data | 0- Multi-point (reset both two-point and single-point calibration data)<br>1- Single-point ( reset both two-point and single-point calibration data) | None |

### 1.7 HART

| No | Commands | Description | Parameter | Returned value |
|---|---|---|---|---|
| 1. | Hart:supplymode? | Read the power supply mode | | 0-ipir internal power and internal resistance；<br>1-eper external power and external resistance; |



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|---|---|---|---|---|
| | | | | 2-epir external power and internal resistance;<br>3-iper internal power and external resistance |
| 2. | Hart:supplymode ipir\|eper\|epir\|iper\|0\|1\|2\|3 | Set the power supply mode | 0-ipir internal power and internal resistance;<br>1-eper external power and external resistance;<br>2-epir external power and internal resistance;<br>3-iper internal power and external resistance | - |
| 3. | Hart:searchstart\|stop\|zero[,<numeric>][,<numeric>] | Hart search; | Start: start searching;<br>Stop: stop searching;<br>Zero: search only zero<br>Note: the start and stop can be added later in the address range parameter, such as",0,15" | - |
| 4. | Hart:devices? | Search device | - | List of devices searched (address and device type) |
| 5. | Hart:connect<address> | Connect to searched device | Address | - |
| 6. | Hart:onldevice:process? | Get process option | - | Pv: process variable;<br>Ao: analog current;<br>%: scale percentage;<br>Sv: second viriable;<br>Tv: third viriable;<br>Fv: fourth viriable;<br>Loopcurrent: loop current |



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| | | | | |
|---|---|---|---|---|
| 7. | Hart:onldevice:process:value? [pv\|ao\|%\|sv\|tv\|fv\|loopcurrent] | Get process value | Pv：process variable;<br>Ao：analog current;<br>%：scale percentage;<br>Sv：second viriable;<br>Tv：third viriable;<br>Fv：fourth viriable;<br>Loopcurrent：loop current | Null: current variable<br>Or designated value |
| 8. | Hart:onldevice:processpv\|ao\|%\|sv\|tv\|fv\|loopcurrent | Switch process value | Pv：process variable;<br>Ao：analog current;<br>%：scale percentage;<br>Sv：second viriable;<br>Tv：third viriable;<br>Fv：fourth viriable;<br>Loopcurrent：loop current | - |
| 9. | Hart:onldevice:parameter? <name> | Read the parameter | Name: parameter name（quoted string） | Corresponding value |
| 10. | Hart:onldevice:parameter<name>,<“value”> | Set the parameter | Name: parameter name（quoted string）<br>Value: value（quoted string） | - |
| 11. | Hart:onldevice:info? | Read hart device information | None or <parameter name><br>Name list:<br>Tag<br>Manufacturer<br>Devicetype<br>Deviceid<br>Writeprotect<br>Date | Return all parameter values of the device when there are no parameters;<br>Return the corresponding parameter value for designated parameter name |



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|---|---|---|---|---|
| | | | Message<br>Descriptor<br>Finalassemble<br>Preambles<br>Universalrev<br>Hardwarerev<br>Softwarerev<br>Devicerev | |
| 12. | Hart:onldevice:sensor? | Return all parameter values for the sensor or return the corresponding values based on the name of the designated parameters | None or <parameter name><br>Name list:<br>Sn<br>Unit<br>Lrl<br>Url<br>Minspan | Return all parameter values of the sensor when there are no parameters;<br>Return the corresponding parameter value for designated parameter name |
| 13. | Hart:onldevice:output? | Return all parameter values of hart output or return the corresponding values based on the name of the designated parameters | None or <parameter name><br>Name list:<br>Unit<br>Lrv<br>Urv<br>Damping<br>Transferfunction | Return all parameter values of the hart output when there are no parameters;<br>Return the corresponding parameter value for designated parameter name |
| 14. | Hart:onldevice:connected? | Get the hart device connect condition | None | 1 value<br>1=connected，0=unconnected |



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**Appendix 1:scpiunit id list**

| Unit id | Unit |
|---|---|
| 2000 | Text unit |
| 32767 | Blank unit |
| | |
| 1211 | Ma |
| 1212 | Ma |
| 1209 | A |
| 1240 | V |
| 1241 | Mv |
| 1281 | Ω |
| 1284 | Kω |
| 1283 | Mω |
| 1000 | K |
| 1001 | ℃ |
| 1002 | ℉ |
| 1003 | °r |



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| | |
|---|---|
| 999 | °re |
| 1005 | ° |
| 1342 | % |
| | |
| 1133 | Kpa |
| 1130 | Pa |
| 1131 | Gpa |
| 1132 | Mpa |
| 1134 | Mpa |
| 1135 | Mpa |
| 1136 | Hpa |
| 1137 | Bar |
| 1138 | Mbar |
| 1139 | Torr |
| 1140 | Atm |
| 1141 | Psi |



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| | |
|---|---|
| 1142 | Psia |
| 1143 | Psig |
| 1144 | Gf/cm$^2$ |
| 1145 | Kgf/cm$^2$ |
| 1147 | Inh2o@4°c |
| 1148 | Inh2o@68°f |
| 1150 | Mmh2o@4°c |
| 1151 | Mmh2o@20°c |
| 1153 | Fth2o@4°c |
| 1154 | Fth2o@68°f |
| 1156 | Inhg@0°c |
| 1158 | Mmhg@0°c |
| 2001 | Mtorr |
| 2002 | Lb/ft$^2$ |
| 2003 | Tsi |
| 2004 | Psf |



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| | |
|---|---|
| 2005 | Inh2o@60°f |
| 2006 | Fth2o@60°f |
| 2007 | Cmh2o@4°c |
| 2008 | Mh2o@4°c |
| 2009 | Cmhg@0°c |
| 2010 | Mhg@0°c |
| 2011 | Kgf/$m^2$ |



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**Appendix 2: error definition**

| No | Error code | Error description | Definition |
|---|---|---|---|
| | 0 | No error | No error |
| **Command error** | | | |
| 2 | 120 | Commandparameter error | Command parameter error |
| 3 | -108 | Parameter not allowed | Too many parameters, or the command without parameters contains parameters |
| 4 | -109 | Missing parameter | Parameter missed |
| 5 | -110 | Command header error | Command header error |
| 6 | -114 | Header suffix out of range | Command header suffix is out of range |
| 7 | -123 | Numeric overflow | Number overflow, the absolute value of the number exponent is greater than 43 |
| 8 | -151 | Invalid string data | Invalid string, such as mismatched quotes |
| 9 | -171 | Invalid expression | Invalid expressions, such as mismatched parentheses |
| **Execution error** | | | |
| 10 | -200 | Execution error | Execution error |
| 11 | -221 | Settings conflict | Settings conflict |
| 12 | -222 | Data out of range | Parameter out of the command's range |
| 13 | -223 | Too much data | Too much data beyond processing capacity |
| 14 | -224 | Illegal parameter value | Illegal parameter value |
| 15 | -230 | Data corrupt or stale | Invalid data, or the data is being read, and no valid data has been obtained |
| 16 | -240 | Hardware error | Hardware error |
| 17 | -256 | File name not found | File name not found |
| 18 | -282 | Illegal program name | Illegal program name |
| 19 | 220 | Measure error | Measure error |



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| No | Error code | Error description | Definition |
|---|---|---|---|
| 20 | 221 | Failed to set meaure function | Failed to set meaure function |
| 21 | 222 | Failed to read measure value | Failed to read measure value |
| 22 | 223 | | |
| 23 | 224 | | |
| 24 | 240 | Control error | Control error |
| 25 | 241 | | |
| 26 | 242 | | |
| 27 | 243 | | |
| 28 | 260 | Calibration error | Calibration error |
| 29 | 261 | Calibration secured | Calibration secured, can not perform calibration |
| 30 | 262 | Invalid calibration secure code | Invalid calibration secure code |
| 31 | 263 | Missing calibration value | During current/voltage calibration, this error will occur if the calibration value is set without setting the calibration point |
| 32 | 264 | Missing calibration data | This error occurs when the calibration point is set continuously, but the calibration value is not set |
| 33 | 265 | Failed to set calibration function | Failed to set calibration function |
| 34 | 266 | Calibration data is not enough | When saving the calibration data, if the calibration data does not reach 3 points, this error will occur |
| 35 | 271 | Setion_name_not_found | Setion name not found |
| 36 | 272 | Key_name_not_found | Key name not found |
| 37 | 291 | Update secured | Update secured |
| 38 | 292 | Invalid update secure code | Invalid update secure code |
| 39 | 293 | Not found the service pack | Not found the service pack |
| 40 | 294 | The service pack unavailable | The service pack unavailable |



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| No | Error code | Error description | Definition |
|---|---|---|---|
| 41 | 295 | Appupdate not found | Appupdate.exe not found |
| **Device related error** | | | |
| 42 | -310 | System error | System error |
| 43 | -311 | Memory error | Memory error |
| 44 | -350 | Queue overflow | Queue overflow |
| 45 | -360 | Communication error | Communication error |
| 46 | 301 | Internal module is not connected | Internal module is not connected |
| 47 | 302 | External module is not connected | External module is not connected |
| 48 | 303 | Supply module is not connected | Supply module is not connected |
| 49 | 304 | Vacuum module is not connected | Vacuum module is not connected |
| 50 | 361 | Open wlan failed | Open wlan failed |
| 51 | 362 | Set wlan address mode failed | Set wlan address mode failed |
| 52 | 363 | Set wlan address failed | Set wlan address failed |
| 53 | 364 | Communication port to wifi module is not open | Communication port to wifi module is not open |
| 54 | 365 | Wlanisnotconnected | Wlan is not connected |



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