UTE9811 Programming manual

REV.1

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LOCK:XXX

Keyboard lock on and off command. The on parameter is ON, and the off parameter is OFF.

Return：SUCC，ERR。

*IDN?

This query command reads the identification string of the instrument. Return value example：

UTE9811，SN202111051001，V1.09，V0.04

MEAS:MODE?

Read the measurement mode. Return value example：RMS，HARM，HARM%

Of which: RMS is a normal true value mode, which only calculates the true values of basic parameters, voltage, current, active power, etc;

HARM is a harmonic true value mode. In addition to calculating the parameters in the true value mode, it also calculates the true values of current and voltage of the 2-50th harmonic;

HARM% is the harmonic component mode. In addition to calculating the parameters in the true value mode, it also calculates the proportion of current and voltage of the 2nd-50th harmonic.

SET:MODE XXX

Set the measurement mode. Return value example：SUCC，ERR

CURR:HIG XXXX

Set the upper limit of current alarm.

Example：CURR:HIG 5A. Return value example：SUCC，ERR

CURR:HIG?

Read current alarm upper limit value.

CURR:LOW XXXX

Set the lower limit of current alarm.

Example：CURR:LOW 5A. Return value example：SUCC，ERR

CURR: LOW?

Read the lower limit value of current alarm.

POW:HIG XXXX

Set the upper limit of power alarm.

Example：POW:HIG 5W. Return value example：SUCC，ERR

POW:HIG?

Read the upper limit value of power alarm.

POW:LOW XXXX

Set the lower limit of power alarm.

Example：POW:LOW 5W. Return value example：SUCC，ERR

POW: LOW?

Read the lower limit value of power alarm.

ALAR:DELA?

Read the alarm delay value. Return value example: 0.2S

ALAR:DELA XXX

Set the alarm delay value. Return value example: SUCC, ERR

STA?

Read alarm signs, return current and power alarm signs. Separated by commas. Example:

Return NOR, NOR, Indicates normal.

Return LOW, HIG, Indicates current lower limit alarm and power upper limit alarm.

MEAS:ALL?

Read back all measured values at one time: measurement mode, voltage, current, power, power factor, frequency, Voltage wave peak, current wave peak, Separated by commas. (All modes are valid)

Example: RMS, 220.1V, 5.01A, 1103.2W, 0.901, 49.99Hz, 1.414, 1.414

HARM:THD?

Read the total harmonic distortion, the harmonic mode is valid, and the true value mode returns an error ERR.

Return: voltage total harmonic value, voltage total harmonic component (%), current total harmonic value, current total harmonic component (%), separated by commas.

HARM:BASE?

Read the fundamental value, the analysis mode is valid, and the normal truth mode returns an error ERR.

Return: fundamental voltage value and current fundamental value

HARM:VOLT?

Read voltage harmonics (2-50 times), return error in true value mode ERR.

Under harmonic true value mode: return voltage harmonic true value. Example: 1.2, 2.5……

Harmonic component mode: harmonic proportion of return voltage. Example: 1.2, 2.5……

HARM:CURR?

Read current harmonics (2-50 times), return error in true value mode ERR.

Under harmonic true value mode: return current harmonic true value. Example: 0.002, 0.005……

Harmonic component mode: harmonic proportion of return current. Example: 1.2, 2.5……