

STEVAL-IPE002V1

Electricity Meter (mono phase) - Measurement Board 2 Current Transformers

Data Brief

Features

- Single-phase, 0.5 class accuracy guaranteed
- $U_{NOM}(RMS) = 140 \text{ to } 300V,$ $I_{NOM}/I_{MAX}(RMS) = 2/20A$, $f_{LIN} = 45$ to 65Hz, $T_{AMB} = -40 \text{ to } +85 \text{ }^{\circ}\text{C}$
- Tamper detection for power line systems
- LED checking for:
 - Functioning
 - No Load Condition
 - Tamper Detection
 - Reverse Energy Direction
- Stepper Motor Display Connector
- Capacitive Power Supply
- SPI Interface Connector:
 - Active, Reactive Apparent Power consumption
- V_{RMS}, I_{RMS} and Line Frequency Josolete Produl



Applications

This metering module can be used to build a 0.5 Single-phase standalone microprocessor based meter with or without Tamper detection for power line systems of $U_{NOM} = 140 \text{ to } 300V_{RMS}, I_{NOM}/I_{MAX} = 2/20A_{RMS},$ f_{LIN} = 45 to 65Hz and T_{AMB} = -40 to +85 °C.

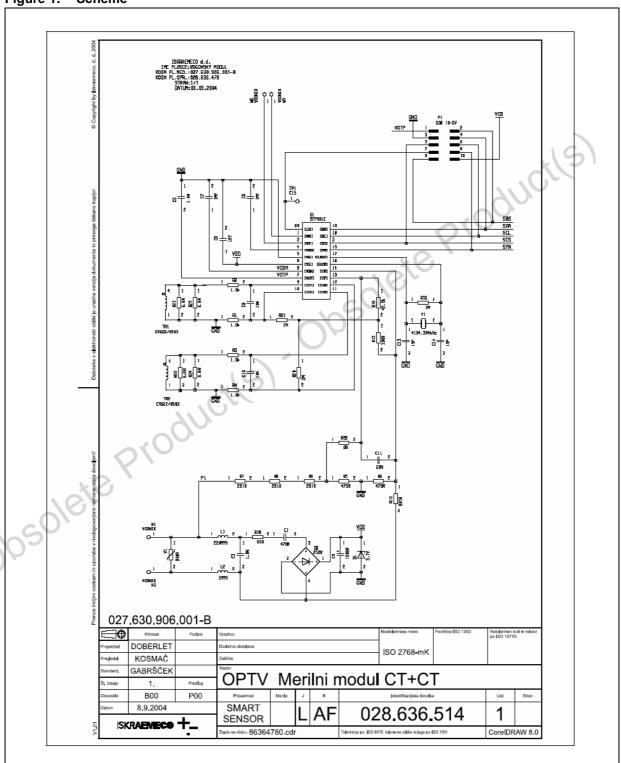
In standalone mode, a stepper motor display should be connected to pins W5 and W6. A user can select the type of stepper or the constant of output pulse frequency by changing LVS or KMOT configurators respectively.

In Microprocessor based mode, a control board with a microprocessor should be connected to the male connector P1 of the module using a 10-wire flat cable.

1 Board Schematic STEVAL-IPE002V1

1 Board Schematic

Figure 1. Scheme



STEVAL-IPE002V1 2 Revision history

2 Revision history

Date	Revision	Changes
12-Jan-2006	1	Initial release.

Obsolete Product(s). Obsolete Product(s)

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2 Revision history STEVAL-IPE002V1

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