Product data sheet

Characteristics

19D-301M

Three phase + neutral kWh meter 3x230V/400V 10(100)A 3x230V/400V 1.5 (6) A

General Technical Data

Voltage (V) Voltage AC (Un) 230 / 400 (3~) Voltage range 161/279 to 300/520 (3~) Current (A) - base (lb) 1.5 (CT type) 10 (directly connect) - max (Imax) 6 (CT type) 100 (directly connect) Starting current (mA) 0.4% of lb Power consumption of current ≤2W / 10VA per phase General data Frequency (Hz) 50(±10%)

Accuracy 1.0 **Standards** IEC 62053-21 **EEprom**

Memory back-up **Enclosure material**

Polycarbonate Upper

Polycarbonate/glass fibre Lower

Temperature range (℃)

Operating -10°C to +50°C Storing -30°C to +70°C

Humidity

75% Operating Storing 95%

Protection

Protection against penetration

Of dust and water **IP51**

Insulating encased meter

of Protective class Ш

Voltage withstand

AC voltage withstand 2KV for 1 minute Impulse voltage withstand 6KV -1.2µS waveform **Current withstand** 301max for 0.01s Pulse output rate 400 imp/kWh 3200imp/kWh(CT)

More than 20 years when Data stored

power off

RS485 communication specifications

RS485 Bus type

MODBUS RTU with 16 bit CRC Protocol Baud rate (bps) 1200 (default), 2400,4800,9600 0-255 user settable Address range **Bus Loading** 256 meters per bus

Rage (m) 1200

Infrared communication specifications

Infrared wavelengths (nm) Between 900 and 1000

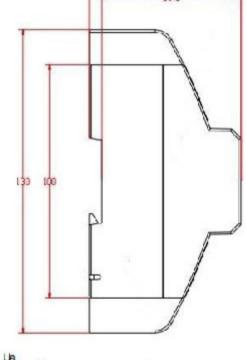
Communication distance (m)

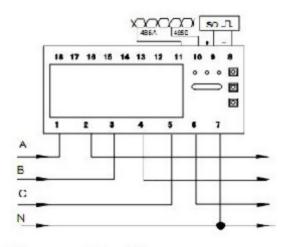
Communication angle -15° to +15°

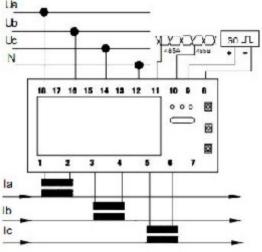
Baud rate (bps) 1200(default), 9600(optional) MODBUS RTU with 16 bit CRC Portocol











≤ 0.5 s (every 24 hours)

3.6V DC, ≥ 1.2Ah

Tariff specifications Tariff number Time segments

Clock accuracy Battery voltage

Directly connect type CT connect type la IN/OUT la IN/OUT 1/2 1/2 Ib IN/OUT IN/OUT 3/4 3/4 Ic IN/OUT Ic IN/OUT 5/6 5/6 Neutral wire 18/16/14/12 Phase A/B/C/N Test pulse output contact 8/9 8/9 Test pulse output contact 10/11 RS485 communication contact 10/11 RS485 communication contact

4

10

To comply with the protection requirements the meter must be mounted in a class IP 51 enclosure or better, according to IEC 60529

Display

Display type LCD Digit length 5+2