



BST

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NO 370, SANAT BLV, TOOS INDUSTRIAL ESTATE,
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IRANTECH 300-DC METER

“IRANTECH300 CT” three phase meter designed for measuring the import and export active energy, import and export reactive energy, maximum demand and instantaneous parameters. It supports load management, multi-tariff, monthly billing, daily billing, load profile, event detection, neutral measurement (optional) and etc. A modular-designed communication module can be GPRS module, or PLC module, or RF module (optional) which supports plug and play without power off the meter

IRANTECH 300-DC METER

Main features

- LCD display
- Insulation class II
- IP54
- Save events
- Load Profile
- IHD port(In Home Display)
- MBUS port ,For connection to water and gas meters
- Interchangeable remote module
- RS485 port
- Internal 120A relay for support of various local and remote control methods
- Active and passive tariff tables
- Updating the meter software locally or remotely
- External removable battery for support in unplugged time
- Real Time Clock Ability to detect leap years,DST(Daylight Saving Time)
- It has an encryption section, the decoding of exchange data
- In accordance with the latest FAHAM interoperability documents (FID2)
- Size: 24*17*9 Cm
- Weight: 1.624 Kg





Technical Specifications

Description	VALUE
Insulation strength	
AC voltage test	
Insulation strength	4kV at 50Hz 1 min
Impulse voltage strength	
Impulse voltage 1.2/50µs mains connections	8kV
Protection class II	
Display	
Display type	LCD (liquid crystal display)
Number of digits value field	Up to 8
Digit size	4.48×8.4
Inputs and Outputs	
Optical test outputs active energy & reactive energy	
Type	Red LED(SMD)
Pulse width	30ms
Active energy constant	1000 imp/kWh
Reactive energy constant	1000 imp/kvarh
Communication Interface	
Optical interface	
Communication standards	IEC62056-21 E mode - HDLC
Boud rate for IEC62056-21 E mode boud rate for HDLC	300~115200 bps(configurable) 9600bps(default)
IHD interface	
Communication standards	DLMS HDLC
Baud rate	4800-9600-19200 bps(configurable) 9600(default)
MBUS interface	
Communication standards	EN 13757-2
Baud rate	2400 bps
Plug.in interface	
For different communication medium Include	
GPRS/PLC/RF/ZigBee	
RS-485 interface	
Communication standards	DLMS HDLC
Baud rate	4800-9600-19200 bps(configurable)





Technical Specifications

Description	VALUE
Voltage	
Nominal voltage U_n	3x230/400V
Extended operating voltage range	0.7 U_n ~1.2 U_n
Start operating voltage	145
Limiting voltage	520
Frequency	
Nominal frequency f_n	50Hz
Tolerance	45Hz to 55Hz
Current	
Basic current $\{I_b\}$	10A
Maximum current (I_{max})	100A
Starting current (1st)	40mA
Measurement Accuracy	
Active energy	Class 1
Reactive energy	Class 2
Power Consumption	
Power consumption in Voltage circuit	
Active power without module	<2W
Apparent power without module	<10VA
Power consumption in current circuit	
Apparent power without module	<0.5VA
Environmental Influences	
Temperature range	
Operation meter	-40°C to +80°C
Storage	-40°C to +85°C
Electromagnetic Compatibility	
Electrostatic discharges	
Contact discharge	8kV
Electromagnetic RF fields	
27 MHz to 500 MHz	Typical 10V/m
100 kHz to 1 GHz	Typical 30V/m
Fast transient burst test	Normally 4kV



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