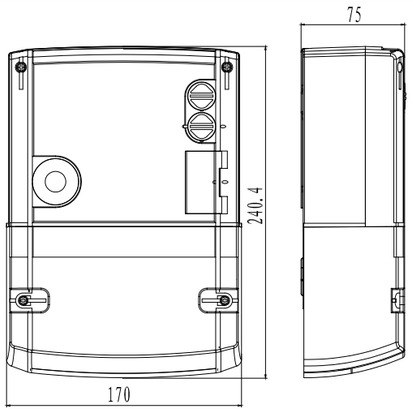
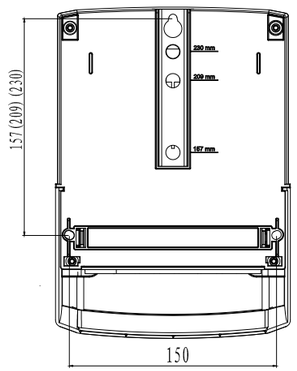
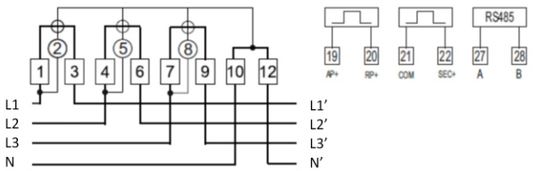
DIMENSION & CONNECTION



Front view, side view and size



Mounting points



Wiring Diagram

Holley Technologie GmbH

Angerburger Allee 43, 14055 Berlin, Germany

E-mail: info@holleytech.de

Tel: +49 174 9839 556

Web: www.holleytech.de

DTS541

Three phase Meter(DT&CT)

OVERVIEW

This user manual is for DTS541 three-phase DT/CT type meter. It used to guide the meter installation, use and maintenance of the technical reference. The meter can support active/reactive energy measurement. Multi-tariff function is available by internal control, and the status of consumed energy can be read from load profile. Besides common events, the meter supports events of open cover and magnetic influence. Besides, it can also measure a variety of instantaneous quantities. The meter supports multi communication methods, like optical communication and RS485. Meter configuration is available via the configuration software which is very flexible.

ADVANTAGES / FEATURES

- RS485, protocol DLMS
- Optical communication
- Multi tariffs

MEASUREMENT

- Measure active and reactive power total and in each phase and tariff
- Measure the instantaneous data:

-Three phase voltage(V)
-Three phase current(A)
-Total and three phase active power(kW)
-Total and three phase reactive power(kvar)
-Total and three phase apparent power(kVA)
-Three phase export active power(kW)
-Three phase export active power(kvar)
-Total and three phase PF
-Voltage and current angle(A/B/C)
-Angle Ua-Ub
-Angle Ua-Uc

TOU

- Tariff control available, up to 4 tariffs. Step tariff is also available.
- 10 period, 8 day tables, 8 week tables, 10 seasons and 100 special holidays

EVENT

- Record latest 100 times of the following event
  -RTC change
  -Low battery
  -Clear event record
  -Tampering event

BILLING

- Storage 12 times billing data

LOAD CONTROL

- Up to 8 channels

DEMAND

- Configurable demand period
- Support both block type and split type demand
- Record import/export active Max. Demand total and each tariff
- Record import/export apparent Max. Demand total and each tariff

LOAD CONTROL

- 3 LED indicators for active pulse, Alarm and credit status.
- LCD size is more than 13cm^2.
- 3 display modes available: scrolling display, manual display and power-off display
- Display contents are configurable
- Display digits: 8
- Backlight is available for weak light condition

TAMPER-PROOF

- Meter/terminal cover open
- Magnetic influence
- Reversed phase sequence
- Power off
- Current unbalance
- Voltage unbalance
- Energy reverse of each phase

SPECIFICATION

NO.	TYPE	PARAMETER
1	Standard	IEC 62052-11, IEC 62053-21, IEC 62053-22, IEC 62053-23, IEC62056-21, IEC62056-61, IEC62056-53, IEC62056-46, IEC62056-42
2	Accuracy	DT: Active Class 1.0 Reactive Class 2.0 CT: Active Class 0.5 Reactive Class 2.0
3	Rated Voltage	3×230/400V, 3×240/400V
4	Operation voltage range	0.9Un~1.1Un
5	Current	
6	Basic current	5A, 10A
7	Maximum current	6A, 10A, 60A, 100A
8	Starting current	0.004Ib
9	Power consumption	
10	Voltage circuit(Un)	≤1W/2VA
11	Current circuit(In)	≤1VA
12	Frequency	60Hz
13	Temperature	
	Operating temperature	-25°C to +70°C
	Storage and transportation temperature	-40°C to +85°C
14	Humidity	≤96%@45°C IEC 62052-11
15	Protection Class	IP54
16	RTC	≤0.5s/day (in 23°C)
17	Insulation strength	
	AC voltage test	4kV, 1min
	Impulse voltage test	6kV, 1min
18	EMC	
	Electrostatic discharges(Contact discharges)	8kV
	Electrostatic discharges(Air discharges)	15kV
	Surge immunity test	4kV
	Fast transient burst test	4kV
	Electromagnetic RF fields	10V , 150kHz~80MHz
19	Battery	replaceable
20	Meter case material	PC
21	Communication	Optical communication RS485, protocol DLMS
22	Dimension	240.4mm×170mm×75mm
23	Weight	Approx. 1.5kg