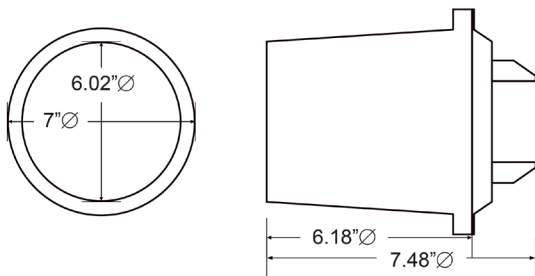


Multiple Form Factors



### DIMENSIONS



### FEATURES

- “Smart” submeter replacement for existing electro-mechanical meters
- Revenue Grade Submeter - ANSI C12.20
- Bi-directional for renewable systems (NET metering)
- Socket Form Factors
  - 2S, 9S and 16S (standard form factors)
  - 1S, 3S, 4S, 5S, 6S, 8S, 12S, 14S & 15S (special order)
  - Other form factors available
- 2 line LCD Display
- Modbus RTU & BACnet MS/TP (Software selectable)
- Modbus TCP & BACnet/IP (Concurrent)
- Pulse Output (kWh) pigtail - optional
- BTL Listed, Sunspec Alliance certified
- User-definable Modbus register area
- User configurable using DTS Config software
- Designed and Manufactured in America.
- Complies with Buy American Provisions of ARRA Section 1605

### MEASUREMENT PARAMETERS\*

#### Socket Form Factors

2S, 9S and 16S	✓
1S, 3S, 4S, 5S, 6S, 12S, 14S, 15S	✓
other form factors available on request	✓

#### Measurements

AC Volts (phase-phase)	L1, L2, L3 & III
AC Volts (phase-neutral)	L1, L2, L3 & III
AC Current	L1, L2, L3 & III
Neutral Current	✓
Frequency (Hz)	✓

#### Power

Active Power - kW (consumed/generated)	L1, L2, L3 & III
Reactive Power - kVAr (inductive/capacitive)	L1, L2, L3 & III
Apparent Power - kVA	L1, L2, L3 & III
Power Factor	L1, L2, L3 & III
Phase Angle	L1, L2, L3 & III
Bi-directional for renewable systems	✓

#### Demand

kW - Sliding Window	✓
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#### Energy

Active Energy - kWh (Net)	L1, L2, L3 & III
Active Energy - kWh (consumed/generated)	III
Reactive Energy - kVArh (Net)	L1, L2, L3 & III
Reactive Energy - kVArh (inductive/capacitive)	III

#### Setpoints, Alarms, Control

Pulse / Status Output	1
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#### Communications

Modbus RTU	✓
Modbus TCP	✓
BACnet MS/TP	✓
BACnet/ IP	✓
SNMP	✓
DNP 3.00 over IP	✓

## SPECIFICATIONS\*

### Measuring Circuits

Voltage range: Depending on form factor and model  
 Voltage overload: 1.1 x  
 Voltage burden: <0.1 VA @ 277 Vac L-N  
 Frequency: 45 to 65 Hz  
 Rated current: Depending on form factor and model  
 Current overload: 1.5 x In for 5A models  
 Power overload: 1.1 x

### Accuracy

Voltage: 0.5%, <0.2% typical (80-120%)  
 Current: 0.5%, <0.2% typical (10-120%)  
 Power: 0.5%, <0.2% typical (10-120%)  
 Power Factor: 0.5% (between 0.5 and 1.0)  
 Energy:\*\* Class 0.5 (ANSI C12.20)

### Mechanical

Connection: Socket base  
 Case Material: Self-extinguishable, V0 plastic  
 Protection: NEMA 4  
 Dimensions: 7"(178mm)Ø x 7.48"(190mm)D  
 Weight: 2.4 lb (1.1 kg) - model dependent

### Environmental

Operating temp: -4° to 158°F (-20° to 70°C)  
 Storage temp: -22° to 176°F (-30° to 80°C)  
 Humidity: 5 to 95% R.H. non-condensing

### Communications (Serial)

Connection: Pigtail with 3 way male/female pluggable, screw terminal  
 Protocols: Modbus RTU (SunSpec Certified) or BACnet MS/TP (BTL Listed)

### Communications (Ethernet)

Connection: Pigtail with RJ45, 10/100 Base T plug  
 Protocols: Modbus TCP (SunSpec Certified) and BACnet/ IP (BTL Listed)

### Display

Lines: 2  
 Characters: 20 per line  
 Auto Scroll: 5 seconds

### Pulse Output

Type: Potential Free, N.O. Solid State Relay  
 Pulse Width: Max 10 Pulses per Second  
 Pulse Rate: 1 Pulse / 1 kWh default, user configurable  
 Max On-Resistance: 30 ohm  
 Max Switching Voltage: 50Vdc or 30Vac  
 Max Switching Current: 120mA (350mA for 10mS)  
 Connection: Pigtail with 3-way male/female pluggable, screw terminal

### Standards & Safety

Built to: UL Std 61010.1 3rd Edition, May 11, 2012, Revised July 15, 2015  
 EMC: IEC 61000-3-2 2010, IEC 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11  
 Emissions: CISPR 11 Group 1 Class A  
 Other: Measurement Category III – 300Vac L-N / 520Vac L-L  
 Communications: BTL Listed. SunSpec Alliance certified  
 RoHS: Compliant

## MODEL NUMBER BUILDER\*

DTS SKTD - **a b** - **c d** - **e** - **f** - **g**

### Current & Voltage Inputs

**a:** 1 = 1A  
 5 = 5A  
 9 = Internal CTs  
**b:** 2 = 208 - 240 Vac L-L  
 4 = 208 - 480 Vac L-L

### Communications

**C:** S = Serial  
 E = Ethernet  
**d:** M = Modbus ONLY  
 B = BACnet + Modbus  
 S = SNMP  
 D = DNP 3.0

### I/O

**e:** N = Not fitted  
 P = 1 x Digital output (PhotoMos relay)

### Socket Form Factor

**f:** - 2S, 9S, 16S (Common form factors)  
 - 1S, 2S, 3S, 4S, 5S, 6S  
 8S, 12S, 14S, 15S  
 - (Others on Request)

### Current Rating

**g:** Internal CTs : (100A, 200A)  
 External CTs : "Blank"

## ORDERING EXAMPLES

Part Number	Current Input	Voltage	Communications	I/O	Socket Form Factor	Current Rating
DTS SKTD-92-SB-N-2S-200	Internal	208V - 240Vac L-L	RS-485: BACnet MS/TP and Modbus RTU (software selectable)	Not fitted	2S	200A
DTS SKTD-54-SB-P-9S	External	208V - 480Vac L-L		1 x digital output (kWh)	9S	5A
DTS SKTD-54-EB-N-9S	External	208V - 480Vac L-L	Ethernet: BACnet/ IP and Modbus TCP (concurrently)	Not fitted	9S	5A
DTS SKTD-94-EB-N-16S-200	Internal	208V - 480Vac L-L		Not fitted	16S	200A

### Distributor:

\* Drawings are for illustrative purposes only  
 Technical details subject to change

R25A