

# YDS60-80 Smart Energy Meter

YDS60-80 is a DIN rail energy meter for three phase measuring.

With integrated RS-485 interface, it allows real-time reading of all relevant data, such as energy (total and partial), current, voltage, frequency, active and reactive power.



MODEL	YDS60-80
<b>General</b>	
Network System	3P3W / 3P4W
Nominal Voltage	3 × 230 / 400 Vac, 50 Hz / 60 Hz
Current Measurement Range	Direct Connected: from 0A to 80A, CT Connected: >80 A
Voltage Measurement Range	Direct Connected: from 90V to 500V, PT Connected: from 500 V to 1000 V
Power Consumption	≤ 1.5 W
Mounting	On 35mm DIN rail
Measurement Category	Category III
Pollution Degree	2
<b>Measurement Accuracy</b>	
Current (Direct Connected)	0.5% from 8 A to 80 A, ±0.4 A from 0.4 A to 8 A
Current (CT Connected)	0.5% from 0.5 A to 5 A, ±0.025 A from 0.025 A to 0.5 A
Phase Voltage	Class 0.5
Line Voltage	Class 0.5
Frequency	±0.02 Hz from 45 Hz to 65 Hz
Power	Class 1
Power Factor	±0.02 from -1 to 1
Active Energy	Class 1
Reactive Energy	Class 2
<b>Environmental Conditions</b>	
Operating Temperature	-25°C to 55°C
Storage Temperature	-40°C to 85°C
Humidity	5% to 95% RH (non-condensing)
Altitude	≤ 2000 m
<b>Voltage Input (Ph-N)</b>	
Operating Voltage	3 × 230 / 400 Vac, 50 Hz / 60 Hz
Power Dissipation Voltage Circuits	< 0.5 VA per phase
Measurement Range	AC 30 V to 265 V
<b>Current Input</b>	
Rated Current	3 × 1.5(6) A
Power Dissipation Current Circuits	< 0.2 VA per phase
Measurement Range	AC 0.05 A to 6 A
<b>Communication</b>	
Communication Protocol	Modbus
Communication Port	RS-485, half-duplex
Baud Rate	4800 bps / 9600 bps (default) / 19200 bps / 115200 bps
Stop Bit	1 (default) / 2
Check Bit	None (default) / Odd / Even

\* YDS60-80 smart energy meter is being used along with BluePulse Series C&I ESS.

\*\* It has not included Current Transformers. For system larger than 50 kW, CT connection is required. Please select the CT that meets the following requirements:

1. The selected CT's primary rating should be larger than the maximum current passing through the system's AC busbar.
2. Maximum Current = system capacity / 230 / 3

\*\*\* Please consult Kstar for more details.