

CS Power Meter CS 110



CS 110 (top) hat rail mountable



CS 110-W in wall mountable casing



The CS Power Meters are designed for easy installation and high accuracy. It measures the actual power consumption in kW and accumulates the Energy consumption in kWh of a 3-phase load. Additionally other measured parameters such as current, voltage, cos phi etc are available as well. Through 3 clamp sensors the current is sensed. Hat rail, wall mountable and portable versions are available.

Technical Data

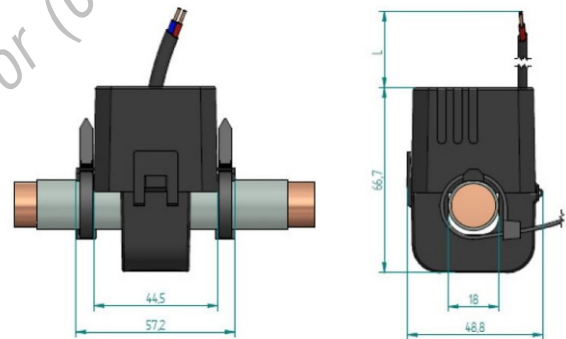
Nominal voltage (L-N, L-L)	277 / 480 VAC
Clamp sensor input range	0 ... 1 A
Available clamp sensors	200 A, 500 A, 1000 A
Power range	Up to 690 kW (depending on clamp sensor)
Accuracy	Voltage: 0.2% Current: 0.5% Clamp: class 1 Energy: class 0.5
Output	Modbus/RTU
Supply	24 VDC / 4 W
Operating Temperature	-5...+55°C
Dimensions	hat rail version: 110x90x31mm wall version: 190x155x85mm Portable: 177x177x60mm



CS 110-P, for connection to DS 350-P



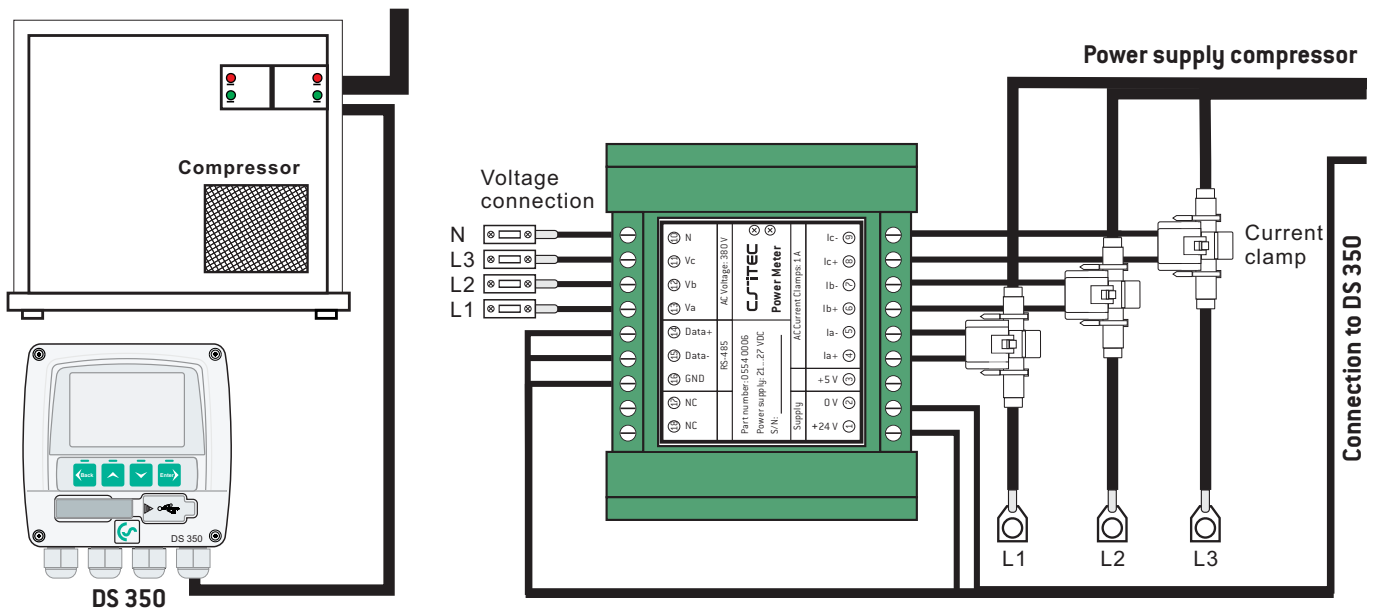
DS 350 / 330 can be used as stationary display of up to 16 power meters



Current clamp sensor (right), easy snap on to isolated conductors

CS Power Meter CS 110

Installation



In above illustration a power meter is installed directly into the connection box of the compressor. The current clamps can be easily fixed with fasteners around the supply wires. The voltage connection can be drawn from other available connection points. A separate cable connects the CS power meter to the DS 3530/350 with Modbus/RTU and 24 VDC power supply. The power meter could also be installed into the connection cabinet where the power supply for the compressor is coming from. If no hat rail mounting is available, there is a wall mountable version of the CS power meter.

Order no.	Description
0554 0030	Power meter CS 110, hat rail, Modbus/RTU
0554 0033	Power meter CS 110-W, Modbus/RTU, 24 VDC supply, wall mountable
0554 0034	Portable power meter CS 110-P, Modbus/RTU, including 4 test leads, 4 test clips, connection cable to DS 350-P
0554 0040	Current clamp sensor, 1.8m cable, 200/1A
0554 0041	Current clamp sensor, 1.8m cable, 500/1A
0554 0042	Current clamp sensor, 1.8m cable, 1000/1A
0554 0061	Current clamp sensor, 1.8m cable, 200/1A, connector to CS 110-P (For consumers up to 138 kW*)
0554 0062	Current clamp sensor, 1.8 m cable, 500/1 A, connector to CS 110-P (For consumers up to 346 kW*)
0554 0063	Current clamp sensor, 1.8 m cable, 1000/1 A, connector to CS 110-P (For consumers up to 693 kW*)
Note: For 3 phases power supply 3 current clamp sensors are needed.	
*) at 400 VAC	
0554 0035	Transport case DS 350-P for sensors and cables
0553 0121	Sensor cable, 6 pole, AWG22, 7.5mm outer diameter, w/shielding, black (per meter)