

## Neutron Devices for Energy Management

Neutron is a family of devices designed **for collecting utility metering data**. Water, gas, electricity, heat, all can be collected to the same device, given the meters have either a standard S0 pulse or a Modbus interface. Neutron devices buffer data locally to make sure **no data is lost** in transfer network failures. They also recover autonomously from power failures. Configuration is done the easiest with a single SMS message.

Neutron devices communicate to the ionSign Cloud, a reporting and device management tool. This is however only an option, the devices can **also send directly to any commercial or bespoke cloud service**. The http interface can easily be built to any system. Neutron is the **backbone of your energy data system**.

Device Type	Power Supply	Connectivity	Signal Inputs	Buffer Capacity	Configuration User Interface	Size, mm Mounting	IP Class	Delivery Includes	
Neutron4-3G	230VAC	3G	S0 pulse, 4 channels	19 months for half-hourly data	SMS	W125xH51xD25 Wall mount	20	Plug-in power supply, GSM antenna	
Neutron 4-B	3,6V 6Ah battery					W145xH90xD55 Wall mount	(65) 44	GSM antenna	
Neutron12-3G	12VDC	LAN	S0 pulse, 12 channels	30 days for hourly data	Device Installer, Browser	W105xH90xD52 6 DIN modules DIN rail	20	12VDC power supply, GSM antenna	
Neutron12-LAN							20	12VDC power supply	
Neutron12-CT		3G, RS485 Modbus	12 current clamps 0...5A	SMS	20		12VDC power supply, GSM antenna		
Neutron15		RS485 Modbus	S0 pulse, 15 channels	RS485	20		12VDC power supply		
Neutron Smart Gateway		LAN	RS485 Modbus, master & Slave	19 months for half-hourly data	Browser		W53xH90xD52 3 DIN modules DIN rail	20	12VDC power supply