



SMARTFOX®

SMARTFOX

Product Catalog

EN



A hand holding a glowing lightbulb against a bokeh background. The lightbulb is the central focus, with a warm, golden glow emanating from it. The background is a soft, out-of-focus bokeh of light spots, suggesting an outdoor setting with sunlight filtering through trees. The hand is positioned at the top, with fingers gently gripping the base of the bulb. The overall mood is warm, creative, and inspiring.

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Innovation & Technology

With our extensive experience in renewable energies, we know the enormous potential of creating energy efficiency in systems. That's why we specialize in developing the best possible solutions for our customers using the latest technologies, coupled with our expertise and innovative mindset.

Customer satisfaction and responsible resource usage are central to our philosophy. By incorporating highly efficient and sustainable components, we aim to make a meaningful contribution to the generations and emerging technologies of tomorrow

Hermann Buchsteiner
Managing Director

Matthias Fischbacher
Managing Director



SMARTFOX Pro

The High-End Energy Management System



Through its intelligent technology, SMARTFOX Pro controls the loads within the system and maximizes the self-consumption rate of your photovoltaic system when there is a surplus.

A wide range of connection options brings the greatest possible efficiency to your system. An essential element to maximize self-consumption is the use of devices such as boilers (heating elements), heat pumps, electric vehicles, infrared heaters and energy storage systems. When solar energy is not used directly, these options provide ideal energy storage in the form of water or electricity. The energy manager can be integrated into both new and existing systems. The WLAN interface enables easy set-up and the energy manager is completed with high-resolution monitoring & an app.

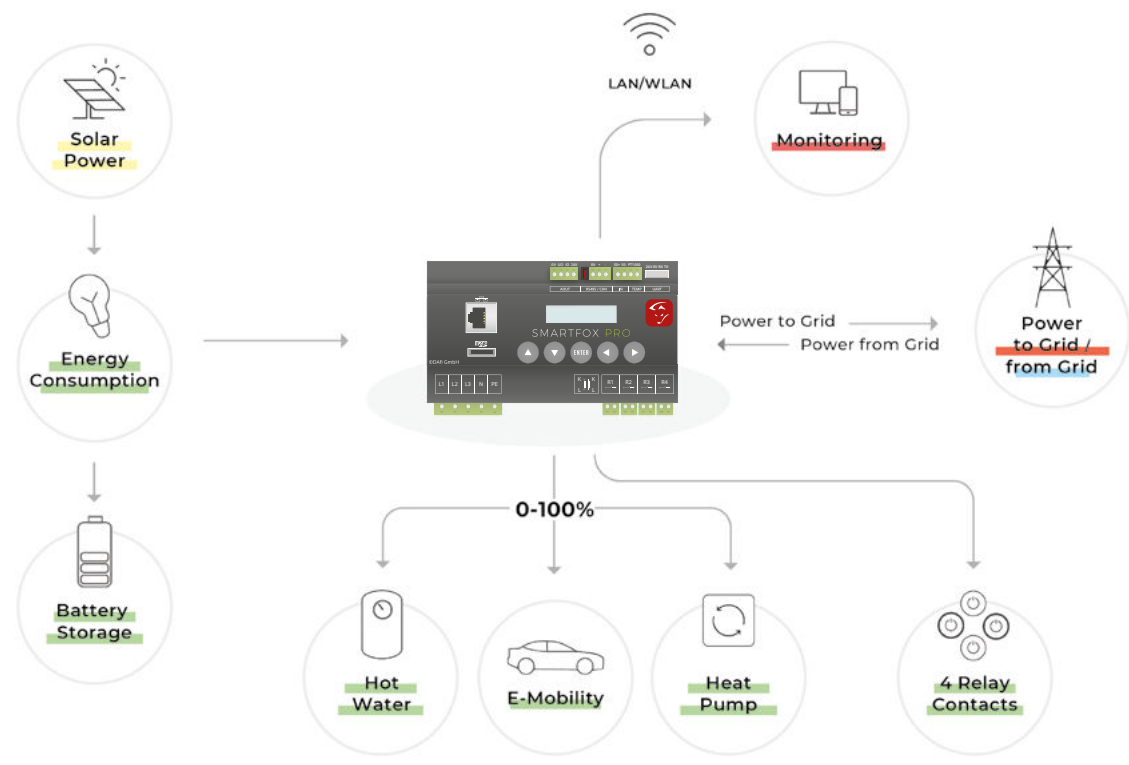
Technical data

Dimensions [W/H/D]	147mm x 90mm x 58mm (8HP)
Rated current	80A 100A or via additional converter 4995A
Power supply	3 x 230V/400VAC 50Hz
Self-consumption	4W
Display	2-line display
Analog outputs	1 x 24VDC 1 x 0/4-20mA 1 x 0/1-10V
Switching outputs	4x normally open relay 5A/250VAC
Interfaces	S0 Input CAN RS485 UART
Communication	WLAN 100 Mbits/s Ethernet LAN
Temperature input	PT1000





Functional Overview SMARTFOX Pro



Options

EAN / Art.No.

1. SMARTFOX Pro 2 energy manger, incl. 80A current transformer	0767523866383
2. SMARTFOX Pro 2 energy manager, incl. 100A current transformer divisible	0767523866390
3. SMARTFOX Pro 2 3Y Energiemanager, inkl. 80A Stromwandler	0796554799063
4. SMARTFOX Pro 2 3Y Energiemanager, inkl. 100A Stromwandler teilbar	0796554799070



3Y: Premium monitoring three years free of charge. With the standard energy managers our monitoring is provided for 10 years.



SMARTFOX Pro Light

The „Compact“ Energy Manager



SMARTFOX Pro Light is the perfect solution for customers who need a compact energy management system for **water heating**. In addition to the analog output, SMARTFOX Pro Light has a PT1000 interface, a relay and an SD memory card. A real-time clock is implemented in the software, which can be used to program a forced release for the heating rod. This ensures hot water generation even during bad weather. With the PT1000 interface, a minimum temperature that should be maintained and a maximum temperature that should only be reached with excess energy can be set.

Technical data

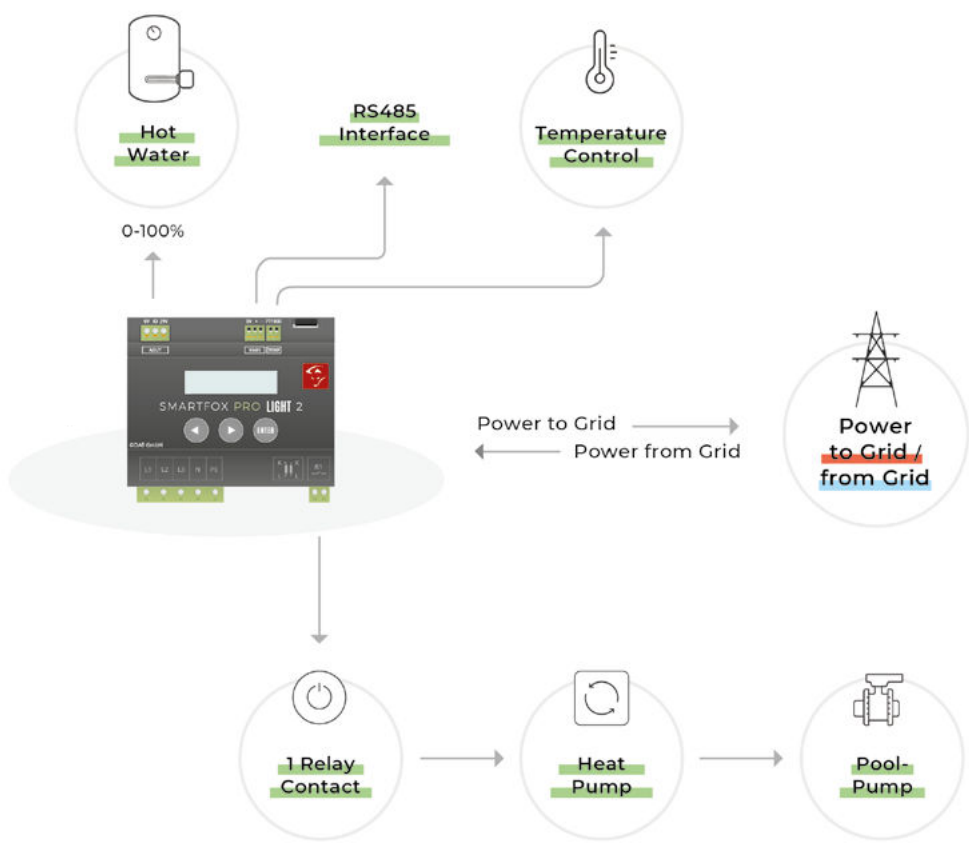
Dimensions [W/H/D]	98mm x 90mm x 58mm
Rated current	80A 100A or via additional converter 4995A
Power supply	3 x 230V/400VAC 50Hz
Self-consumption	4W
Display	2-line Display
Analog outputs	1 x 24VDC 1 x 0/4-20mA
Switching output	1x normally open Relais 5A/250VAC
Temperature input	PT1000
Accessories supplied	Current transformer 80A 100A SD-card
Interface	RS485



SMARTFOX Pro Light does not offer live monitoring. Data evaluation via SD card is possible.



Functional Overview SMARTFOX Pro Light



Options

1. SMARTFOX Pro Light 2, incl. 80A current transformer

EAN / Art.No.

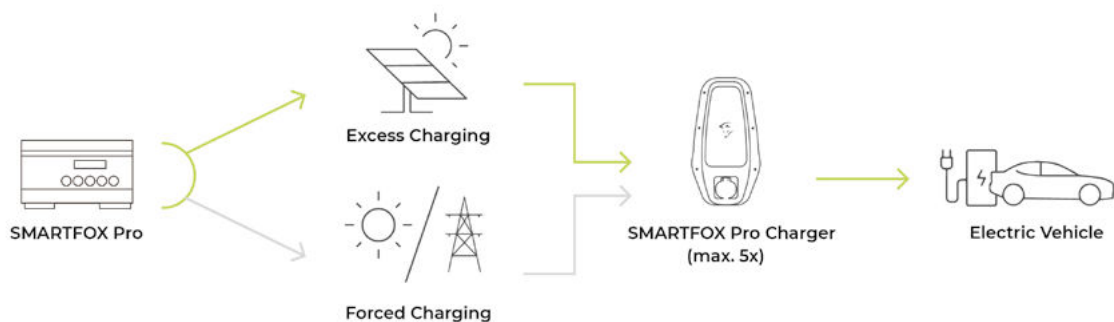
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SMARTFOX Pro Charger

The SMARTFOX Pro Charger impresses with its functionality and modern, timeless design. Optimize your power consumption and refuel your electric vehicle for free with surplus solar power.

Top price-performance ratio: With the SMARTFOX Pro energy manager, the charging station is controlled precisely and dynamically with 100% solar power. The integration takes place via RS485 interface and is therefore functionally independent of the house network. With automatic phase switching, the maximum is extracted from the excess charge. If the energy is low, 1-phase charging can be started from as little as 1.4kW. If the excess energy increases, the SMARTFOX automatically switches to 3-phase charging and can control up to 11kW continuously. Dynamic load management is possible for up to 5 SMARTFOX Pro Chargers. With the free monitoring, the charging station / PV system can be controlled and monitored at any time, even when on the move. If no app is desired, manual operation via hand switch (not included) is possible.



Suitable accessories



SMARTFOX Charging Cable 3-phase, 7m

Type 2 plug with ergonomic handle. Cable cross sections: 5 x 2.5 mm² and 2 x 0.5 mm². Very elastic and with matt surface. Suitable for charging stations up to 11kW | 16A.



Stainless Steel Stand

For easy and clean installation of your charging station/s. The cables are routed in the tube and are thus protected from damage and the effects of the weather.



SMARTFOX RS485/Ethernet Converter

With the converter you can integrate your SMARTFOX Pro Charger into an existing system via network. More information and technical details can be found on **page 19**.

Technical data

Item number	0767523866314	0796554799056	0796554799100
Charging Point	Type 2 cable, 5m (gross), ca. 4,7m (net) 1,4kW-11kW	Type 2 cable, 5m (gross), ca. 4,7m (net), 1,4kW-11kW + RFID-Keypad	Type 2 cable, 7m (gross), ca. 6,7m (net), 1,4kW-11kW + RFID-Keypad
Supply*	1~: 16A 3~: 16A		
Pre-fuse*	LS 3-pole C 16/20A*, FI protection type A 30 mA		
Nominal power**	11 kVA		
Protection	DC residual current detection 6 mA according to ÖVE/ÖNORM EN 6185		
Load management / interface / input	Modbus RTU via RS485, digital input for manual switch		
Protection class	IP54, IK10		
Supply line	Max. clamping cross section 5x10mm ² (suitable for copper and aluminium conductors)		
Cable entry	Optionally from the bottom or from the back, M25 and M32 sealing glands are included (max. cable outer diameter: 21mm)		
Temperature range	-30°C to +50°C (without direct sunlight)		
Dimensions	H 490 x B 274 x T 180mm		
Weight	4,5 kg		
Housing material	Plastic (polycarboante housing)		
Color	Front shell: white, Back: blue grey		

* Depending on a single-phase or three-phase power supply, maximum performance can be achieved. The adjustment of charging current/power can be made on-site.

** In the case of a three-phase power supply and maximum charging current/power

Attention: The minimum charging power of electric cars with a type 2 plug is standardized (EN 62196). Electric cars charge continuously from 1.4kW 1-phase (6A) or 4.3kW 3-phase (6A). To achieve this, the photovoltaic system must be able to produce significantly more than the minimum charging power of the car.

Options

EAN / Art.No.

SMARTFOX Pro Charger 11kW, incl. license, 5m cable, type 2 (excl. SMARTFOX Pro Energy Manager)	0767523866314
SMARTFOX charging cable 3phase, 7m, type 2, 11kW	0767523866369
Stainless Steel Stand, suitable for SMARTFOX Pro Charger, single	0767523866345
Stainless Steel Stand, suitable for SMARTFOX Pro Charger, double	0767523866352



SMARTFOX Pro Heater 6K

The SMARTFOX Pro Heater offers the all-in-one solution for water heating. It is the ideal addition to your SMARTFOX energy manager and is available in four different output classes: 3K / 4.5K / 6K & 9K

The heating element can be used to heat heating and drinking water in enameled tanks. The integrated temperature sensor ensures sufficient hot water even in bad weather and a hygiene function (legionella). The integrated performance measurement provides a clear display in the free My SMARTFOX monitoring system. The app gives you access to the system while on the move and allows you to control it remotely if required.

Product information:

- 15 stages
- Integrated temperature sensor
- Control thermostat (10°C to 80°C) & safety thermostat
- Fixed temperature 60° (= EMERGENCY ON function)
- No power controller required
- Stand-alone operation possible
- Ideal addition to stepless consumers (e.g. battery, e-charging stations, etc.)
- Integrated power measurement
- Compatible with our SMARTFOX Pro and SMARTFOX Pro 2 energy managers via RS485 (4-20mA interface in preparation)
- **Four power classes: 3kW, 4.5kW, 6kW & 9kW**



Functional Overview



Technische Daten

Art. No.	0796554799001	0796554799018	0767523866338	0796554799025
Heat output	3kW	4,5kW	6kW	9kW
Spannung	3~400V, 50Hz			
Tension	max. 4,41A	max. 6,62A	max. 8,82A	max. 12,99A
Screw-in thread (AG)	G 1 1/2" (6/4")			
Betriebsdruck	max. 10bar			
Operating pressure	345mm	360mm	480mm	660mm
Unheated length	100mm			
Shell material	2.4858 - Alloy 825			
Suitability for continuous operation	Yes			
Field of application	Hot water boiler & buffer tank (suitable for drinking water)			
Installation	horizontal			
Elektrischer Anschluss	Stecker 5polig Nennquerschnitt 1,5mm ² inkl. Anschlussleitung 5m			
Electrical connection	Plug 5-pin nominal cross-section 1.5mm ² incl. connection cable 5m			
Interfaces	RS485 (4-20mA in preparation)			
Temperature sensor	integrated (class B)			
Type	Temp. controller (TR) + safety temp. limiter (STB)			
Control temperature (TR)	10-80°C			
Display	Status display via LED			
Operating mode	With energy manager: 15-stage surplus control, minimum temperature maintenance, weekly timer, hygiene function, frost protection & fixed temperature, etc. Stand-alone operation: frost protection & fixed temperature possible			
Compatible energy managers	SMARTFOX Pro & SMARTFOX Pro 2			
Monitoring	Via SMARTFOX energy manager (my.smartfox.at & APP)			

Options

EAN / Art.No.

SMARTFOX Pro Heater 3K	0796554799001
SMARTFOX Pro Heater 4,5K	0796554799018
SMARTFOX Pro Heater 6K	0767523866338
SMARTFOX Pro Heater 9K	0796554799025



SMARTFOX Screw-In Heater

The heater can be used for heating and drinking water in glass lined buffer tanks and containers. In combination with the SMARTFOX Pro energy manager and power controller, the screw-in heater can be used for continuous surplus utilization.



Technical data

Power	Voltage	Immersion depth	Unheated length	Screw-in thread. (AG)	Surface load
3kW	1~230V	345mm	100mm	G 1 1/2" (6/4")	12,6W/cm ²
4,5kW	3~400V	360mm	100mm	G 1 1/2" (6/4")	11,0W/cm ²
6kW	3~400V	480mm	100mm	G 1 1/2" (6/4")	11,0W/cm ²
9kW	3~400V	660mm	100mm	G 1 1/2" (6/4")	11,0W/cm ²

Screw head

Width across flats	SW60
Material	Brass max.
Operating	max. 10bar

Radiator

Shell material	2.4858 - Alloy 825
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Connection housing

Material	Polycarbonate / RAL7021
Protection class	IP64
Cable gland	M20x1,5 / polyamide PA6, clamping range 6-12mm ²
Electrical connection	Screw terminal nominal cross section 6mm ² (min. 0,5mm ² / max. 10mm ²)

Temperature control

Type	Temp.-controller (TR) + protection temp. limiter (STB)
Control temperatur (TR)	0-85°C
Shutdown temp. (STB)	110°C-10K
Direct switching	direct (load)

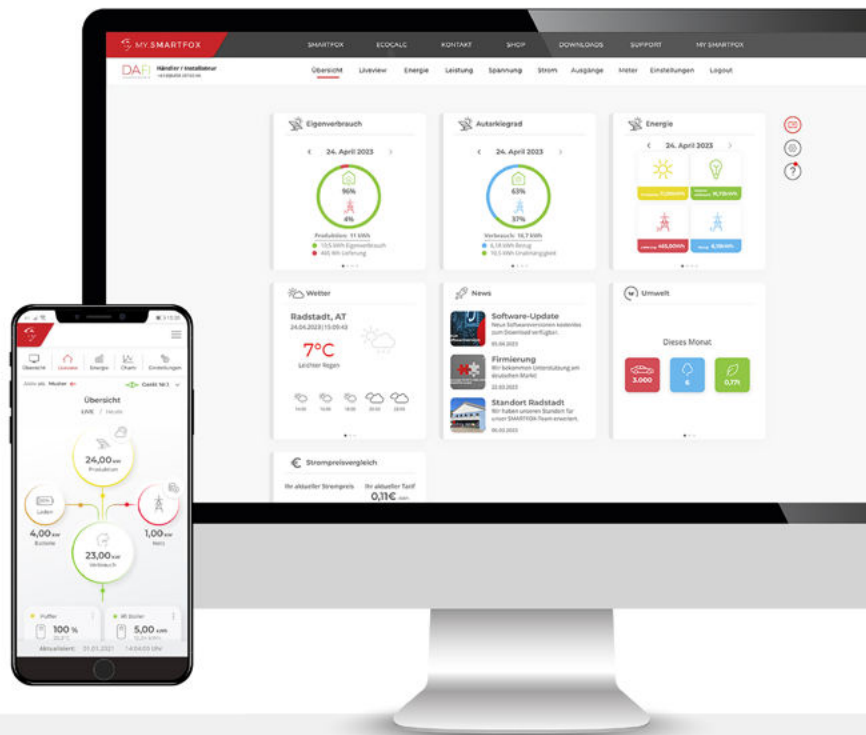


My SMARTFOX Monitoring & App

Our free platform offers a detailed overview of the system's energy generation including energy consumption as well as extensive evaluation options for optimizing your selfconsumption rate. The system is particularly interesting for installers & dealers because they can carry out maintenance, updates, and adjustments to customers' systems remotely.

The new dashboard offers you a clear display of self-consumption, degree of self-sufficiency, energy values, weather, SMARTFOX news, and much more. The widgets can be customized and expanded to provide a personalized view. The live-view displays the system including all energy consumers in real time. Plant production, grid supply/purchase, and the consumption of individual devices such as buffers, boilers, heat pumps, or e-charging stations can be viewed and controlled as required (e.g. e-car charging mode). Furthermore, a comprehensive analysis system is available to you in order to continuously optimize yield and consumption and to identify any "power-guzzlers".

- ✓ **Dashboard**
- ✓ **Alarmservicefunktion**
- ✓ **Live-view data in real-time**
- ✓ **Remote access for installers**
- ✓ **Energy overview & mail**
- ✓ **Savings at a glance**
- ✓ **Available as app**
- ✓ **10 years free of charge**



Remote access for installers

Our system provides installers with secure remote access to perform maintenance, updates and adjustments on customer installations, avoiding on-site appointments and thus saving time and costs. The clear display of all devices and the possibility to perform analyses and remote updates make the system an effective tool for installers and dealers.



SMARTFOX S0 Monitoring

SMARTFOX S0 Monitoring is the easiest way to achieve comprehensive system monitoring. Through its 5 x S0 meters it is possible to measure all your hot water, electricity and heating oil consumption. It can be integrated into any existing system, regardless of whether a SMARTFOX Pro energy manager is already installed. Thus, SMARTFOX S0 Monitoring allows you to monitor and visualize your operating costs and demand. In addition, it can measure the energy production of your photovoltaic system. The data is available at my.smartfox.at.



Technical data

Dimensions (W/H/D)	90mm x 57mm x 17,5mm
Weight	6g
S0 counter inputs	5
Power supply	24VDC
Self-consumption	1W
Interface	2 port ethernet switch 10MBit
Protection class	IP54
Operating temperature range	-25°C to +40°C
Mounting	Series installation for meter 1TE



We recommend the use of S0 meters with at least 1000 pulses/unit. Compatible with SMARTFOX Energy Meter.

Options

EAN / Art.No.

SMARTFOX S0 Monitoring

0791732486506

SMARTFOX Energy Meter

The SMARTFOX Energy Meter is a 3-phase, up to max. 80A, energy meter with a RS485 & S0 interface. The energy meter is DIN rail suitable, can be used to display electrical energy of 3-phase AC in a direct system and can be read by SMARTFOX Pro & SMARTFOX S0 Monitoring.



Technical data

Power Supply	3x230V/400V~, 50/60Hz
Display	LCD (number of digits 6+2=000000,00kWh)
Current	Max. 80A
S0 interface	1000 Imp/kWh
RS485 interface	Modbus RTU

Options

EAN / Art.No.

SMARTFOX Energy Meter

0767523866321

SMARTFOX Software Licenses

In order to be able to guarantee the visualization of energy consumption of products from external manufacturers in the SMARTFOX monitoring system for a longer period of time, licenses are required.



Licenses

EAN / Art.No.

Software license for inverter (10-year license) ¹	0791732486445
Software license for car charger (10-year license) ²	0791732486568
Software license for heat pump (10-year license) ³	0791732486605
Software license for battery storage (10-year license) ⁴	0791732486599
Premium-Monitoring license 1 J.	0796554799087
Premium-Monitoring license 3 J.	0796554799094

- ¹ One inverter free of charge, for each additional inverter a license is required. Valid for Fronius, Kostal, LG, Panta10, SolarEdge, ABB, Kaco, SMA, RCT, Huawei, Delta, Alpha ESS, Solax, Sungrow, Victron, Growatt, Azzurro.
- ² Alfen, Wallbe, Mennekes, Keba, Eaton, BMW, ABB, Honda, Heidelberg. No license is required for the SMARTFOX Pro Charger.
- ³ Valid for iDM, Bösch, Dimplex, M-Tec, Soltop, PicoEnergy
- ⁴ Valid for Varta, SolarWatt, RCTpower, LG ESS, Huawei, Alpha ESS, SolarEdge, Solax, Victron, Sungrow. BYD oder LG readable by inverter (Fronius & Kostal).

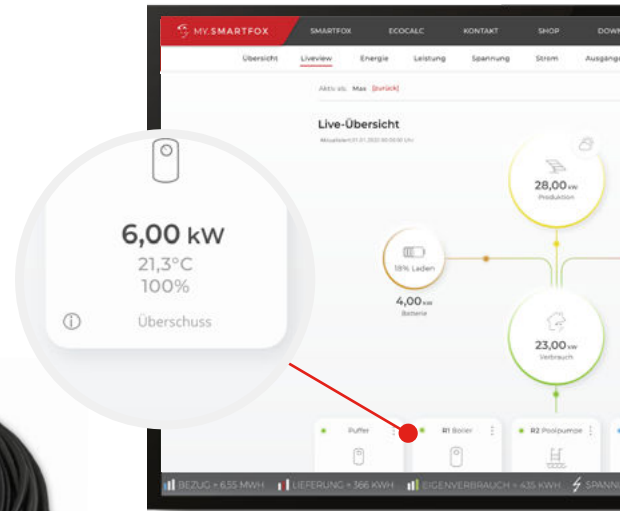


SMARTFOX Temperature Sensor PT1000

The maintenance-free sensor measures the temperature in the range of -35 to +105°C and is ideal for universal and cost-effective temperature measurement.

The moisture-proof rolled stainless steel protective sleeve (IP65) protects the internal measuring unit from moisture. The cable sensor is supplied with a PVC connection cable and can be used, for example, as a storage tank sensor, buffer sensor or immersion sensor.

Use the SMARTFOX temperature sensor with our energy manager for minimum temperature maintenance. Even in bad weather, hot water is ensured. The temperature is displayed live in the monitoring.



1

Technical data

Sensor type	PT1000
Measuring range	-35°C to +105°C
Circuit type	2-wire
Connected load	PVC pipe
Cable length	5m
Sleeve length	50mm

Options

EAN / Art.No.

- | | |
|--|---------------|
| 1. SMARTFOX Temperaturfühler PT1000, 5m | 0767523866178 |
| 2. SMARTFOX contactor for charging station 1ph/3ph switching | 0767523866192 |
| 3. SMARTFOX flange plate 180mm, stainless steel | 0767523866185 |



SMARTFOX changeover relay 16A

SMARTFOX changeover relay
3-changeover contact, 16A per con-
tact switchable, coil voltage 230VAC.

Ideal for use with SMARTFOX “analog
relay switching” or “2nd heating rod
function” (switching via temperature
sensor).

Technische Daten

Anzahl der Kontakte	3 Wechsler
Abmessungen [B]	40mm (2TE)
Montagehalterung	DIN-Schiene
Nennbetriebsstrom pro Kontakt	16A
Nenn- / Schaltspannung	230/400V (50Hz)
Steuerspannung	230V (50Hz)
Normen	EN 61810-1
Schutzart	IP20
Netzwerkprotokoll	---
Netzwerkschnittstelle	---
Serielle Schnittstelle	---

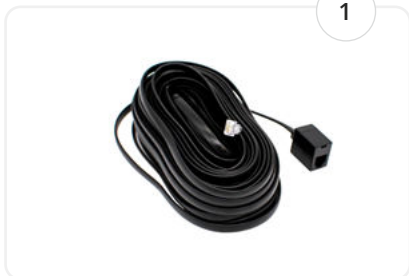


SMARTFOX Flange

Flange plate, 180mm, stainless steel incl. seal

Adapter flange plate including gasket
for the use of SMARTFOX heating el-
ements (screw-in heaters, Pro Heater
series with 6/4" or 1 1/2" connection) in
a boiler / buffer with 180mm flange
connection.

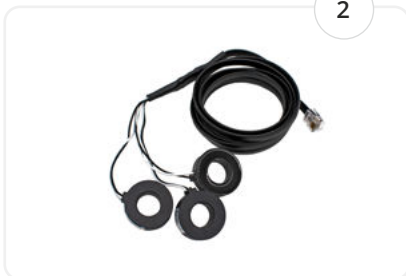




1

SMARTFOX transducer extension 15m

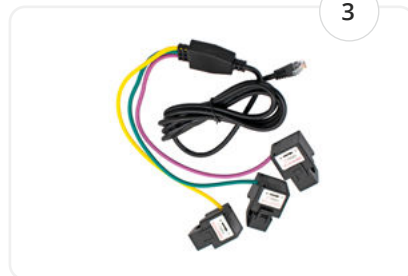
For the existing SMARTFOX Pro & SMARTFOX Pro Light energy manager.



2

SMARTFOX current transformer 80A closed

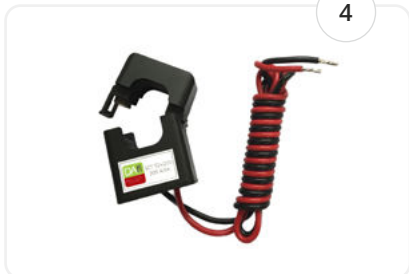
For SMARTFOX Pro and SMARTFOX Pro Light energy manager (with RJ12 connector).



3

SMARTFOX current transformer 100A divisible

For SMARTFOX Pro and SMARTFOX Pro Light energy manager (with RJ12 connector).



4

SMARTFOX current transformer 200/5A divisible

For measuring currents up to 200A.



5

SMARTFOX current transformer 500/5A divisible

For measuring currents up to 500A.



Technical data

Product according to picture	4	5
Primary/secondary current	200A/5A	500A/5A
Minimum primary power	5VA	10VA
Rated voltage secondary	0,33 VAC	0,33 VAC
U_{iso} / $U_{primary}$ max.	600 VAC / 5000 VAC	600 VAC / 5000 VAC
Operating temperature	-15°C to +60°C	-15°C to +60°C
Frequency range	50 - 400Hz	50 - 400Hz
Connection lines secondary	105cm / 2,5mm ²	105cm / 2,5mm ²
Measurement tolerance	Class 1	Class 1
Certification	RoHS / CE	RoHS / CE

Options

EAN / Art.No.

1. SMARTFOX transducer extension 15m	0791732486520
2. SMARTFOX current transformer 80A closed for SMARTFOX Pro & Pro Light EMS	0791732486629
3. SMARTFOX current transformer 100A divisible for SMARTFOX Pro energy manager	0791732486674
4. SMARTFOX current transformer 200A / 5A divisible (1 pcs.) with cable	0791732486490
5. SMARTFOX current transformer 500A / 5A divisible (1 pcs.) with cable	0791732486650

Merchandise on request



SMARTFOX Intelligent use of solar power, DE & EN



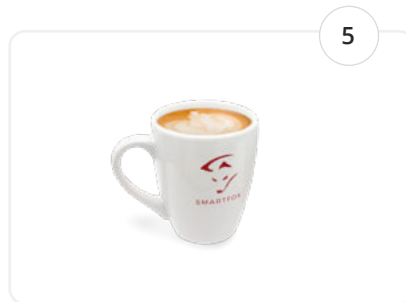
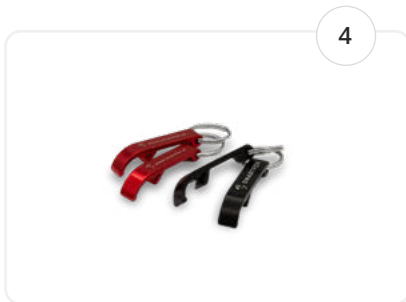
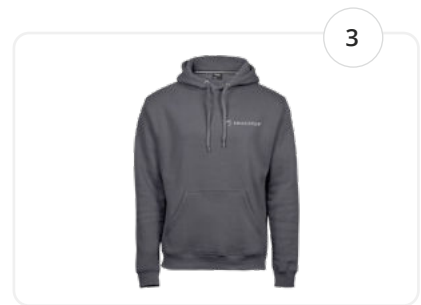
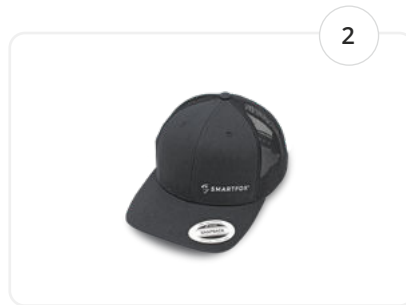
SMARTFOX Pro Charger, DE & EN



SMARTFOX Product catalog, DE & EN



SMARTFOX Installer brochure (only in German)



Designation

1. SMARTFOX Sunglasses
2. SMARTFOX Trucker Cap, Dark grey
3. SMARTFOX Hoodie
4. SMARTFOX Bottle opener
5. SMARTFOX Coffee cup
6. SMARTFOX Pen

Send us your request to verkauf@smartfox.at

SMARTFOX Contact

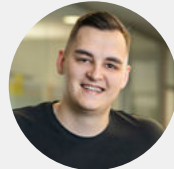
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Proven technology that lets you get the most out of solar energy. Our technology is not only powerful, but also extremely reliable. The intelligent SMARTFOX system has already proven itself over 20,000 times in practice and is waiting to make your photovoltaic system more efficient too. We will be happy to answer any questions you may have about our system. You can find the most frequently asked questions at www.smartfox.at/support

Many thanks to our partners!

	KOSTAL	solar edge	ABB	
				
				
				
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