

## PS Commander

Communication device for remote monitoring and management of  
LORENTZ Pump Systems

Connect your pump system  
anywhere in the world.  
Bringing your water supply  
online allows you to monitor  
your system from wherever  
you are, without having to visit  
the site.

- The PS Commander is a solar powered cellular gateway that connects the pump controller to the LORENTZ Global application in the cloud
- PS Commander provides 2 way connection from the pump system to LORENTZ Global



photo may differ from actual product

## Features

- Self-contained controller and 2G/3G cellular terminal (19-001900) or 2G/LTE-M1/LTE-NB cellular terminal (19-0011860, 19-001870)
- Automatically pairs with up to eight LORENTZ PS2, PSK2, or PSK3 controllers within Bluetooth range
- Connects to each controller in turn and sends current running data and status via mobile Internet to a central LORENTZ server
- All data is encrypted and secure
- Only for use in combination with LORENTZ Global cloud based service, which provides:
  - Remote monitoring configuration and management of LORENTZ pumps
  - Active reporting of any alerts or problems
  - Ability to switch on, switch off, monitor external sensors and control pump speed remotely
  - Inclusive monthly fee for cellular data access, application updates and web service

## CONNECTED

All LORENTZ Solar Water Pumping Systems are CONNECTED, this means they are easy to configure, provide rich information to technicians and customers plus they can be managed remotely.

Our CONNECTED features make configuration simple, reduce site visit costs and ensure you are informed of exactly what your life critical solar water pumping system is doing.

With our LORENTZ CONNECTED apps, PumpScanner and LORENTZ Assistant, easily downloadable in the Google Play Store, you can configure the system with just a couple of clicks and swipes on a smart device.

## PumpScanner & Assistant

- allow easy configuration of pump system and accessories
- real-time and stored data access to keep track of pumps, and monitor water levels

## LORENTZ Global

- remote monitoring service that stores data in the cloud
- upload data directly to Global with LORENTZ Assistant
- manage your pumps and check your water levels from anywhere

## Product Content

- The required battery and PV module must be ordered separately. Locally purchased parts must meet the following characteristics:

### battery:

- Sealed 12V AGM lead acid battery
- Min. capacity: 5Ah
- Max. dimensions (LxWxH): 151 x 70 x 100 mm

### PV module:

The recommended PV-module is:

- LORENTZ LC20-12M

The PV-Module is not only for battery charging. It is also used as a measurement sensor for irradiation detection. If a PV-module other than the recommended is used, it must meet the following characteristics:

### PV-Module characteristics

|            | P <sub>max</sub> | I <sub>mp</sub> | V <sub>mp</sub> | I <sub>c</sub> | V <sub>oc</sub> |
|------------|------------------|-----------------|-----------------|----------------|-----------------|
| unit       | [Wp]             | [A]             | [V]             | [A]            | [V]             |
| value min. | 20               | 1.2             | 17.2            | 1.3            | 21.6            |
| value max. | 150              | 7.98            | 18.8            | 8.5            | 22.7            |

If a PV module other than LORENTZ LC-20-12M is used then the I<sub>sc</sub> must be configured via the LORENTZ Assistant app accordingly.

## Technical Data

- Global SIM card preinstalled
  - 19-001860 / 19-001900: see coverage list in partnerNET
  - 19-001870: USA only
- Enclosure class: IP54
- Ambient temperature: -15 to 50°C
- Bluetooth standard: class 1
- 19-001900 : 2G/3G Terminal with R&TTE, GCF, CE, FCC, PTCRB, IC, UL and AT&T approvals
- 19-001860 / 19-001870: 2G/LTE-M1/LTE-NB Terminal with R&TTE, GCF, CE, FCC, PTCRB, IC, UL and AT&T approvals
- Manual with further information is available on LORENTZ PartnerNet

## Mounting options

- The PS Commander must be mounted vertically to a wall or a pole using appropriate fixings.

## Order information

| Item number | Description                                 |
|-------------|---|
| 19-001900   | PS Commander 3G (Global variant)            |
| 19-001860   | PS Commander LTE-M1/LTE-NB (Global variant) |
| 19-001870   | PS Commander LTE-M1/LTE-NB (US variant)     |

## Dimensions and weight

- Packing dimensions: 350 x 185 x 235 mm [13.8 x 7.2 x 9.3 in]
- Weight: 3.1 kg [6.8 lbs]

# About LORENTZ

LORENTZ is the global market leader in solar powered water pumping solutions. Founded in Germany during 1993 LORENTZ has pioneered, innovated and excelled in the engineering and manufacturing of solar powered water pumping. Today LORENTZ is active in over 130 countries through a dedicated network of professional partners. LORENTZ technology uses the power of the sun to pump water, sustaining and enhancing the life of millions of people, their livestock and crops.

Simply – **Sun. Water. Life.**



LORENTZ Germany  
Siebenstücken 24  
24558 Henstedt-Ulzburg  
Germany

☎ +49 (4193) 8806 700

LORENTZ China  
No 34 Jiuan Road  
Doudian Town  
Fangshan District  
102433 Beijing  
China

☎ + 86 (10) 6345 5327

LORENTZ US Corp  
710 S HWY 84  
Slaton, TX 79364  
USA

☎ +1 (844) LORENTZ

LORENTZ India Pvt. Ltd.  
Netaji Subhash Place  
Pitampura 110034  
New Delhi  
India

☎ + 91 (11) 4707 1009

[www.lorentz.de](http://www.lorentz.de)