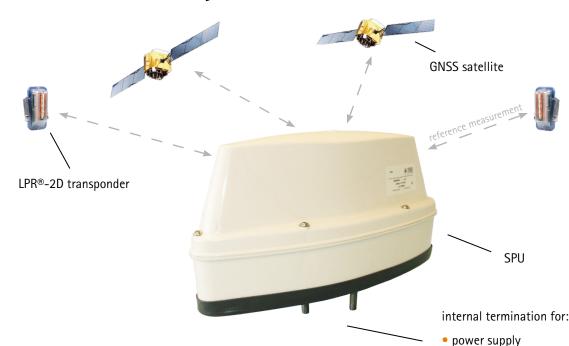
## Symeo Positioning Unit SPU (-L, -S, -SD, -LS)



interfaces



SPU (-L, -S, -SD, -LS)

## Dynamic Acquisition of Indoor and Outdoor Vehicle Positions

The SPU is a compact position measurement device with integrated antennas for permanent installation on a wide variety of vehicles and other moving devices. It is fully sealed and can withstand cleaning detergents and vehicle washing tunnels.

The device optionally utilizes Symeo LPR<sup>®</sup> positioning technology (SPU-L), GNSS (SPU-S), D-GNSS (SPU-SD) or both technologies LPR<sup>®</sup>/GNSS combined (SPU-LS).

LPR<sup>®</sup> allows exact position measurement indoors and outdoors, even under challenging industrial conditions. The LPR<sup>®</sup> position is calculated based on the distance to fixed reference marks, so-called transponders. Transponders can easily be mounted at varying distances and height levels on existing walls, fences or pillars, making it a very flexible system. Location cells are usually composed of up to 6 transponders and a single cell can cover an area of up to 100.000 m<sup>2</sup> (approximately 300 m x 300 m). Based on the typical layout of the transponder network, even at a temporary loss of contact to some transponders, LPR<sup>®</sup> will still continue to provide dynamic position measurement with good quality.

The GNSS receiver option delivers outdoor location fixes, provided enough satellite signals are received with direct line of sight.

Due to the radio based technology, the SPU determines reliable location data even under the influence of dust, dirt and adverse weather conditions. Position information can be transferred via the LPR® radio frequency, by using Ethernet/WiFi or an optional on-board GPRS/UMTS modem.

- Precise 2D position with LPR<sup>®</sup> and/or GNSS
- Contactless position detection via radio technology
- Unlimited system range
- Works under dust, dirt and adverse weather
- Quick installation
- Retrofit on all existing equipment
- Maintenance-free



 $^{*}$  based on sufficient LPR  $^{\odot}$  transponders and/or GNSS satellites (> 8) with required signal quality available

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