

# Harsh environment, flexible solution

Quality radio modems for  
wireless data communication



## SATEL Proof-TR4+ / -TR9

SATEL Proof-TR4+ / -TR9 is a heavy-duty radio modem that meets the requirements of machine control and smart farming and marine applications. It is built to last dirt, vibration, sand, dust, liquids and lightning.

SATEL Proof-TR4+ / -TR9 consists of an IP69K sealed housing and a radio module of your choice. You can choose the module from one of the following frequency variants:

- 403 ... 473 MHz
- 902 ... 928 MHz ISM license free band

## GNSS

SATEL's radio modems and modules offer a first-class solution for GNSS, machine control and smart farming. Accuracy, continuity and availability are essential.

# SATEL

Read more: [www.satel.com](http://www.satel.com)

Mission-Critical Connectivity

SATEL is one of the world's leading experts and innovators of radio modems for wireless data communication. Our solutions are used in wide range of industrial applications. We are known for our high quality, expertise, service and support.

You can contact us directly or get in touch with your local distributor.

# Heavy-duty solution that meets your needs

SATEL Proof-TR4+ / -TR9 is a flexible and cost-effective solution that serves various needs. It has a profound electrical protection; both the power and data lines as well as the antenna interface are surge protected. Because of the IP69K-classification it stands high pressure and hot water. It has additional filtering on GNSS frequencies.

The modem is compatible with SATEL-EASy+ / -TR4+ / SATELLINE-EASy / -TR1 / -TR9 based radio modems as well as several other radio protocols.

## SATEL Proof-TR4+ / -TR9

|                               |  |
|-------------------------------|--|
| Complies with requirements in | EU<br>USA<br>Canada<br>Australia               |
| Frequency range               | 403 ... 473 MHz @ TR4+<br>902 ... 928 MHz @TR9 |
| TX power max.                 | 1 W  |
| RX Sensitivity                | -118 ... -105 dBm                              |
| Radio data speed max.         | 28800 bps @ TR4+<br>115200 bps @ TR9           |
| Serial interface              | RS-232 (TD, RD lines)                          |
| Serial data speed max.        | 115200 bps                                     |
| Operating voltage range       | +7 ... +27.5 Vdc (-15 % / +20 %)               |
| Power consumption             | RX / TX 1.2 W / 7 W (typical)                  |
| Interface connector           | Deutsch DT04-6P-CL09                           |
| Antenna connector             | TNC female                                     |
| Size H x W x D                | 174 x 95 x 46 mm                               |
| Weight                        | <500 g   |
| IP classification             | IP67 / IP69K                                   |

*Values are subject to change without a notice.*

