

# Antenna Datasheet

## HTTH\_1L\_400x620

Outline Dimension: 400mm x 620mm

**frequent**  
froschelectronics GmbH

### Installation Notice:

UL/CSA requires that the antenna is encapsulated or installed in a protective enclosure.

### Specification for the usage with the frequent HTRM1100 LF-Interrogator:

Please carefully read this specification and keep the power limits in terms of radiation valid in the country of operation.

|                                     |   |
|-------------------------------------|---|
| $P_{max} = 10W^*$                   | Maximum input power in order to prevent overheat and overvoltage*                         |
| Outline dimensions of antenna loops | 370mm x 590mm   |
| Inductivity L                       | 31 $\mu$ H  |
| Number of Windings                  | 4   |
| Quality Factor Q                    | ~80   |
| Cable**                             | 500cm (default) 2 Pin shielded cable; the cable length must be kept as short as possible. |
| Environment                         | Indoor and outdoor use  |
| Operation Temperature               | 0°C to 55°C   |
| Storage Temperature                 | -25°C to 85°C   |
| Relative Humidity                   | 10% to 80% (non-condensing)   |

\*This power level is valid until the ambient temperature does not exceed the operating temperature limit which is specified in this table. Keep in mind that the ambient temperature may exceed this limit when operating the antenna in a case or an ambience with limited ventilation. For this case the power must be reduced until the ambient temperature of the antenna keeps the limit.

\*\* Oversized cable parts should be cut and should never form loops! Maximum cable length 5m

Please find instructions for the tuning of the antenna in  
"Antenna Tuning Instructions". It can be downloaded at <http://www.frequent.com> .