

northfalcon  
E N E R G Y



## NF-T

North Falcon Tanker Probe

# NF - T

## GENERAL

NF T wired fuel probe is a level sensor which measures the level of fuel and the temperature of the liquid in the tank. The measurements are transmitted via RS485 wired bus.

It's electronics is based on a powerful microprocessor technology and the measurements are accurate and sensitive.

Measurement accuracy: +/- 0,5 mm.

Measurement resolution: +/- 0,05 mm.

Temperature accuracy: +/- 0,2°C

It is intrinsically safe suitable for 0 zone, hazardous areas.

Full stainless steel execution

Ultra compact design, easy installation

Measuring range 0,4 m up to 5 m

## COMMUNICATION

Baudrate : 9600

Databit : 8

Stopbit : 1

Parity : None

Transmission is wired, maximum transmission distance: up to 1 Km based on standard

of RS485 interface with proper data cable.

Proprietary Rs485 data protocol .

The serial number is unique and corresponds to the probe address for the consequent configuration into the electronics control.

## ELECTRICAL

Ultra low power mode

Nominal power supply 12 Vdc (30Vmax) through an intrinsically safe barrier.

Consumption in normal functioning <15 mA @ 12 Vdc(25mA LPM)

Consumption in sleep mode functioning < 200 uA @12 Vdc

U<sub>i</sub> = 30V

I<sub>i</sub> = 100mA

C<sub>i</sub> = trascurabile/negligibile

L<sub>i</sub> = trascurabile/negligibile

## MECHANICAL

Stainless steel case, IP68.

Probe shaft Stainless Steel AISI 304 / 316

Dimensions might change according to the shaft length up to 500 cm.

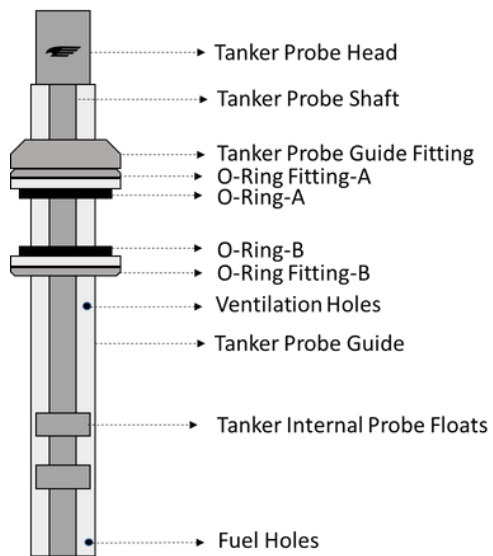
## ENVIRONMENTAL

Operating Temperature Range: T<sub>amb</sub> = -40 +80°C



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## Easy Installation



**Tanker Probe Guide Fitting:** This fitting is used for fixing the Tanker Probe Guide. Must be located outside the tanker truck.

**O-Ring Fitting-A:** This fitting is used for fixing the *O-Ring A*. Must be located between *Tanker Probe Guide Fitting* and tanker wall, outside the tanker truck.

**O-Ring Fitting-B:** This fitting is used for fixing the *O-Ring B*. Must be located between compartment wall top and *Ventilation Holes*, inside the tanker truck.

