

# TNO Electronic Products & Services (EPS) B.V.



Return address: P.O. Box 15, 9822 ZG Niekerk, The Netherlands

ATCB  
Att. Mrs. M. Bosley  
Certification Department  
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**Subject**  
Antenna information

**Date**  
October 09, 2007

**Our reference**  
07091102.B03

**Your reference**  
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1 of 1

Our General Terms and Conditions, as filed at the Chamber of Commerce in Groningen, are applicable to all orders given to TNO Electronic Products & Services (EPS) B.V.

TNO Electronic Products & Services (EPS) B.V. is registered at the Chamber of Commerce in Groningen with no. 27247331.

Dear Mrs. Bosley:

On behalf of our customer ENRAF B.V., we hereby declare that the antenna of the following device:

FCC ID	:	LOM990SRFL
Brand	:	ENRAF B.V.
Model	:	Model 990SRFL SmartRadar Flexline
Description	:	9.5 - 10.6 GHz Radar field disturbance sensor, mounted in metal tanks.

The antenna is an integrated part of the Microwave field disturbance sensor mounted inside metal tanks for level measuring. See attached data for more antenna details.

Best regards,  
TNO Electronic Products & Services (EPS) B.V.

A handwritten signature in blue ink, appearing to read 'P. de Beer'.

P. de Beer  
Approvals & Quality Manager

## I) Overview Antennas



## II) Free Space Antennas

- Planar antenna (F06)
- Symmetric antenna
- Antenna in tank
- Various stem lengths
- Gain 23 dB



- Planar antenna (F08)
- Asymmetric antenna
- Antenna in tank
- Various stem lengths
- Gain 24,5 dB



- Fixed type W06
- Wide Array Linear Planar
- Free space
- Size 6" x 12"
- Gain 26 dB



- Hinged type T06
- Wide Array Linear Planar
- Free space
- Size 6" x 12"
- Mounting in 6" nozzles
- Gain 26 dB



### III) Stilling Well Antennas

- Planar antenna F types
- For 6", 8", 10", 12" still pipe
- No cone adapter required
- Allows hinged flange construction
- Various stem lengths
- Gain 24.5 dB



- Horn antenna H04
- 4" still pipe
- Pins for verification
- API Chapter 3.1B
- Up to 40 bar
- 1" ball valve optional
- Gain 24,5 dB



#### IV) High Temperature Antenna

- Free space dielectric Rod
- High temperature
- High chemical resistance
- Gain 24,5 dB

