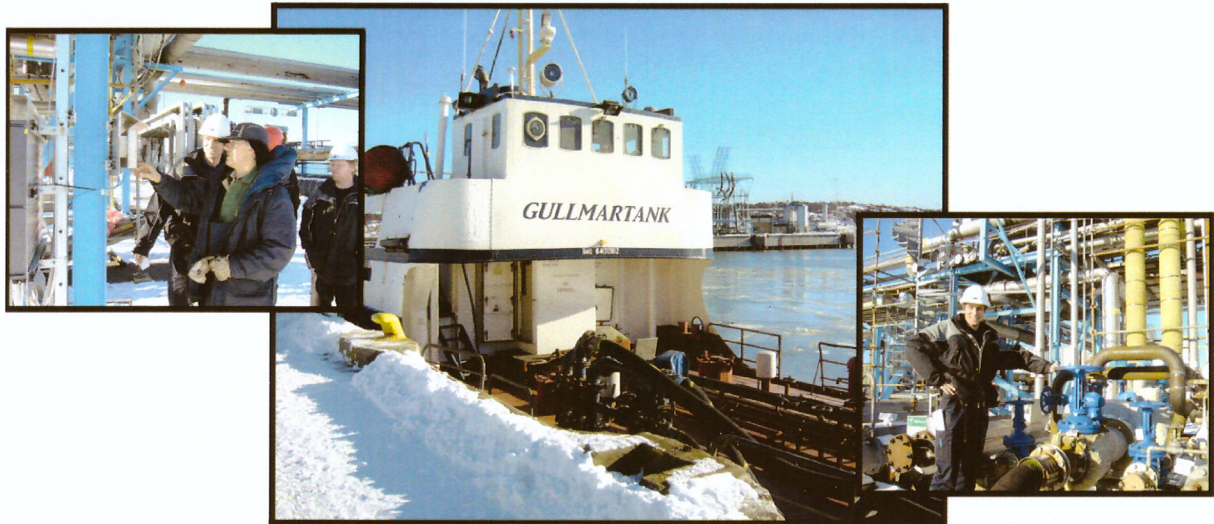


# AUTOMATIC LOADING & CONTROLLING SYSTEM FOR Ex-AREAS

## MFT1000



The bunker boat load for them selves

### Automatic Loading & Controlling system for Ex-areas

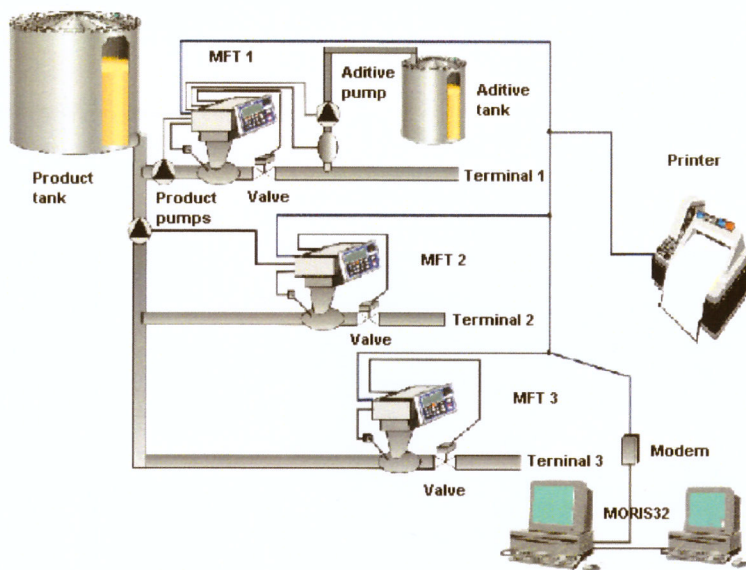
MFT1000 is an automatic loading and controlling system for **trucks, train cars and ships** in Ex- areas. The system replaces current distribution systems of fluids in petrochemical and chemical industry. Modular design with optional number of inputs and outputs allows using MFT1000 as multi-purpose SCADA system for Ex application as well for next application for example: on-line blender, data collector in Ex zone, data display unit in Ex zone etc. In many applications is useful compatibility MFT1000 with SCADA modules ST485. MFT1000 was developed with the view of European Ex certification ATEX. Manufacturing of MFT1000 is under ISO 9001/2000.



Truck loading

#### Features:

- Automatic operation of whole loading, including additives etc
- Modular standalone design
- Minimum installation changes and costs
- State of the art
- Simple & user friendly
- 32 MFT1000 on 1 bus
- Redundancy of all loading data
- Graphical display, large keys



A typical small system with three MFT1000 displays



A typical installation at a truck loading facility with indicator panels, MFT1000 display units and traditional flow meters.

### Technical Specification:

MFT1000 Display	
Ambient temperature	-20 to 70°C
Power supply	5, -6,5 VDC
Cover material	Stainless steel
Weather protection	IP 54
Ex certification	II 2G EEx ia IIB T4
Dimensions (h x w x d)	181x278x40 mm
Weight	1,8 kg
Communication speed	115 000 Baud/s

MFT1000 Basic Unit	
Ambient temperature	-20 to 70°C
Power supply	12 VDC
Cover material	Stainless steel
Weather protection	IP 65
Ex certification	II 2G EExd[ia] IIB T4
Dimensions (h x w x d)	320x320x185 mm
Weight	10 kg

In- and outputs MFT1000 BU	Std	Max
Display	1	5
Pulse I.S. input 5 kHz	4	12
On/Off I.S. input 100 Hz	8	24
I.S. Pt 100	3	9
I.S. 4-20 mA active input	1	5
Pulse non I.S. input 5 kHz	4	12
On/Off non I.S. input 100 Hz	8	24
4-20 mA passive input	2	6
Grounding of tank car	1	5
Overfill protection	1	5
Emergency stop	1	5
Relay	8	24