



# DMK 456

## Pressure Transmitter with Stainless Steel Field Housing

Special application:  
Marine and Offshore

accuracy according to IEC 60770:  
standard: 0.25 % FSO  
option: 0.1 % FSO

### Nominal pressure

from 0 ... 40 mbar up to 0 ... 20 bar

### Output signals

2-wire: 4 ... 20 mA  
others on request

### Product characteristics

- ▶ LR-certificate (Lloyd's Register)
- ▶ DNV-GL Approval (Det Norske Veritas • Germanischer Lloyd)
- ▶ ABS-certificate (American Bureau of Shipping)
- ▶ CCS-certificate (China Classification Society)
- ▶ stainless steel field housing
- ▶ IS-version (temperature class T6)  
Ex ia = intrinsically safe for gases
- ▶ high overpressure resistance

### Optional versions

- ▶ diaphragm Al<sub>2</sub>O<sub>3</sub> 99.9 %
- ▶ different inch threads and flush versions

The pressure transmitter DMK 456 has been developed for measuring the pressure in systems and the level in tanks and is certificated for shipbuilding and offshore applications.

Due robust stainless steel field housing and the possibility to use the device in intrinsic safe areas (temperature class T6) enable to measure the pressure of aggressive gases and fluids under extreme operating conditions. The basis for the DMK 456 is a capacitive ceramic sensor element designed by BD|SENSORS, which offers a high overload resistance and medium compatibility.

### Preferred areas of use are



Monitoring of the pressure during loading and unloading processes



Monitoring of a ship's position and draught



Use in anti-heeling systems



Level measurement in ballast and storage tanks  
Monitoring of the internal pressure in liquid gas cargo tanks





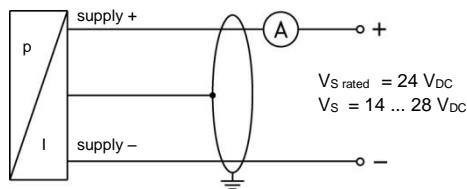
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Technical Data

## Wiring diagram

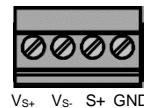
2-wire-system (current)



## Pin configuration

Electrical connections

field housing (clamp section: 2.5 mm<sup>2</sup>)



Supply +  
Supply -  
Ground

VS+  
VS-  
GND

## Dimensions (mm / in)

