

## Solutions for all sizes



XtreMA HP  
(0.05...10 kN·m)



XtreMAX  
(10...1000 kN·m)



Customized  
Solutions



Highspeed Flange  
65.000 rpm



MW\_S  
(1...500 N·m)



Two  
range



Option: Change e.g. via app or simultaneous  
- 2 Channel solution

XtreMAX flange with different antennas  
and evaluation units - depending on  
customer requirements



Antenna embedded in the evaluation unit



Stand-alone antenna detached from evaluation unit

1.2 MN·m flange for marine and gas turbines:



MANNER Sensorlemetrie GmbH, Eschenwasen 20, 78549 Spaichingen  
Tel. Nr.: +49 7424 93290 Email: info@sensortelemetrie.de

15 kN·m to 500 kN·m



MANNER advanced design for higher  
precision and overload resistance

- Rated speeds up to  $9.000 \text{ min}^{-1}$
- Accuracy class 0.05 (up to 0.02 optional)
- Short design
- Customized mechanical interface
- DAkkS calibrations available
- Wide temperature range:  $-40^\circ\text{C}$  up to  $160^\circ\text{C}$
- Up to 10 kHz -3dB bandwidth

## Our Design

- 400% limit torque of the nominal torque with no harm to the flange
- 800% breaking torque of the nominal torque
- High bending tolerance

## Options for Highest Accuracy

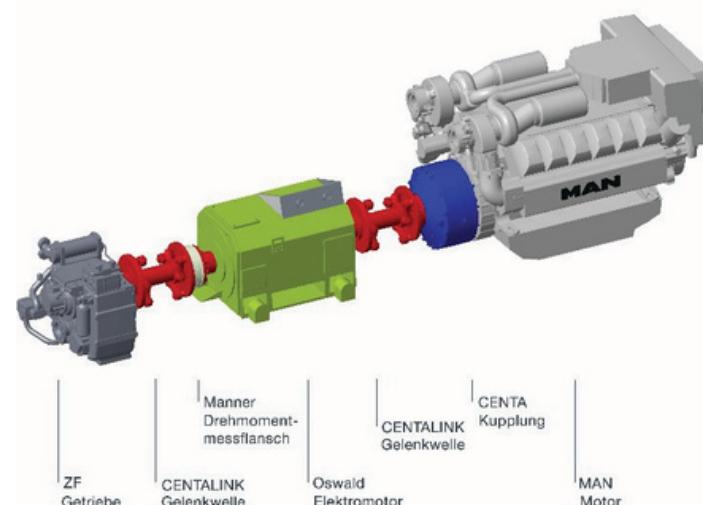
- Zero drift compensation -40°C to 160°C
- E-Modul compensation -40°C to 160°C
- Speed compensation
- Compensation of parasitic forces

## Made for harsh environment

- Oil mist, grease
- Water IP67; Saltwater
- ATEX



- The inductive technology allows flexible stator configurations depending on your needs:
  - Radial/Nominal distance is 10 mm (up to 20 mm optional)
  - Axial tolerance between pickup and flange is  $\pm 2$  mm (up to  $\pm 20$  mm optional)
- High rotor to stator distance prevents collisions, vibrations and damage through inaccurate installation
- MANNERs proven technology ensures high transmission quality, even with inaccurate installation
- Fully digitalized measurement (no interference on the communication path)



- The stator unit is freely configurable with the classic analogue signal output (voltage, current, frequency)
- The following digital outputs are available via EtherCAT, CAN, Ethernet, WLAN
- Interface for health monitoring
- Integrated Pick-Up version is available as well as a set apart solution for cabinet mounted evaluation units



Calibration Rig - 500 kN·m