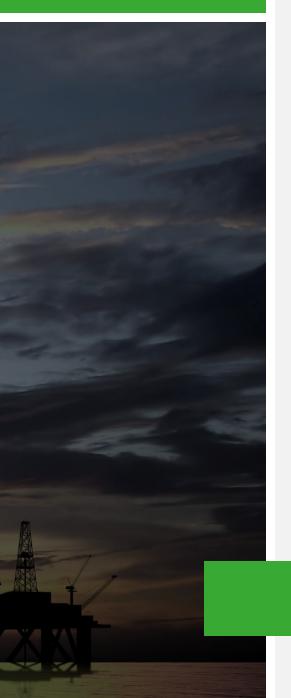


POSITION SENSORS

TRANSMITTERS FOR ANGULAR POSITION AND INCLINATION TRANSMITTERS





ROBUST - RELIABLE - FLEXIBLE



The correct position decides

YOUR BENEFITS AT A GLANCE

- RELIABLE OPERATION DUE TO ROBUST DESIGN AND HIGHEST PRECISION
- LOW INSTALLATION COSTS DUE TO EASY AND FAST ASSEMBLY
- TIME SAVINGS DUE TO THE INTEGRATION VIA STANDARD INTERFACES
- LOW LIFE CYCLE COSTS DUE TO THE HIGHEST USEFUL LIFE WITH CONSTANT MEASURING ACCURACY

CHEMICALS AND PETROCHEMICALS



AUTOMATION AND LOGISTICS



MACHINE AND PLANT CONSTRUCTION



ENERGY GENERATION AND DISTRIBUTION



OIL AND GAS



SHIPS AND TRANSPORT



Operating as a leading provider of high-quality instrumentation, we have pursued the goal of making electric engineering processes safer, more transparent and thus more efficient for more than 70 years.

Our products are designed especially for industrial use and ensure the smooth operation of plants, production and processes due to their high quality in terms of accuracy, reliability and longevity.

Our **POSITION SENSOR** portfolio offers solutions for angle, position and inclination measurement. The program covers simple installation devices through to robust applications in rough conditions. The angle and inclination measuring systems serve as an important link between mechanical and control facilities.

WE KNOW ALL THE ANGLES ABSOLUTE ANGULAR POSITION TRANSMITTERS

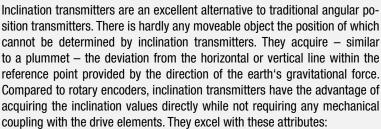
High reliability and safety requirements exist in all areas of machine and plant construction. Safety-related demands on positioning tasks are constantly increasing, particularly if failures can endanger people and the environment. To meet these demands, Camille Bauer Metrawatt offers a range of high-quality absolute angular position transmitters. They acquire a rotatory or translatory movement without contact and transform it into an electrical output signal. The devices excel with these attributes:

- Unique, patented capacitive measuring method
- Absolute measured value is always available
- Time-consuming reference runs are not required
- Robust design for rough conditions
- On-site parameterisation
- Non-wearing and low maintenance
- Different versions are available



KINAX WT720

WE HAVE A NEW SLANT ABSOLUTE INCLINATION TRANSMITTERS



- One-dimensional inclination measurement with oil-damped pendulum system or with MEMS technology
- Absolute measured value is always available
- Time-consuming reference runs are not required
- High absolute accuracy
- Very robust design with high ingress protection of housing
- High-quality materials
- On-site parameterisation
- Different versions are available





OVERVIEW TRANSMITTERS FOR ANGULAR POSITION

Type

WT720 THE INDUSTRIAL



WT720 WITH FLANGE ADAPTER THE ALTERNATIVE



WT707 THE ROBUST



Features

Measuring principle
Housing design
Type of shaft
Shaft diameter
Measuring range

Electrical interface

Operating voltage

Linearity

Reproducibility

Premitted shaft load

Protection

Mounting position

Housing material

Operating temperature

Robust industrial housing

High ingress protection

• On-site parameterisation

capacitive

ø 58 mm solid shaft

ø 10 mm

singleturn 0...360°

analogue 4...20mA

12 ... 30 VDC

±0.5%

0.1°

max. 80 N radial max. 40 N axial

any

anodized aluminum

-40 ... +85 °C

IP67 / IP69K

 Alternative to WT707 / WT717, if on-site parameterisation

capacitive

ø 58 mm /ø 102 mm

solid shaft

ø 19 mm

singleturn 0...360°

analogue 4...20mA

12 ... 30 VDC

±0.5%

0.1°

max. 80 N radial max. 40 N axial

any

anodized aluminum

-40 ... +85 °C

IP67 / IP69K

Analogue

· Suitable for rough conditions

capacitive

ø 102 mm

solid shaft

ø 19 mm

0...30°, 0...60°, 0...90°

analogue 0 / 4...20mA

12 ... 33 VDC

≤0.5%

0.1°

max. 1000 N radial max. 500 N axial

any

Steel / stainless steel flange aluminium hood

−25 ... +70 °C

IP 66



WT717 THE ROBUST



Parameterisation via software

capacitive

ø 102 mm

solid shaft

ø 19 mm

0...50° or 0...350°

analogue 4...20mA

12 ... 33 VDC

≤0.5%

0.1°

max. 1000 N radial max. 500 N axial

any

Steel / stainless steel flange aluminium hood

−25 ... +70 °C

IP 66

3W2

THE COMPACT

2W2



- Almost infinite resolution
- · No wear and maintenance

capacitive

ø 48 mm

solid shaft

ø 2 mm and ø 6 mm

0...≥10° to 0... ≤270°

analogue 0 / 4...20mA

12 ... 33 VDC

≤0.5%

0.1°

max. 16 N radial max. 25 N axial

any

aluminium

−25 ... +70 °C

IP 50

· Parameterisation via software

capacitive

ø 48 mm

solid shaft

ø 2 mm and ø 6 mm

0...50° or 0...350°

analogue 4...20mA

12 ... 33 VDC

 $\leq 0.5\%$

0.1°

max. 16 N radial max. 25 N axial

any

aluminium

−25 ... +70 °C

IP 50



OVERVIEW INCLINATION TRANSMITTERS

Type

N702 THE ANALOGUE



Features

- Analogue interface 4...20 mA
- Programmable on site via push-button

Measuring principle

Housing design

Measuring range

Pendulum damping

Electrical interface

Operating voltage

Linearity

Resolution

Mounting position

Housing material

Operating temperature

Protection

Connection

magnetic with pendulum

ø 60 mm

0 ... 360°

at 25° tilt <1 sec.

4...20 mA

9...33 VDC

0.05%

14 Bit

Vertical to the measured object

aluminium coated

−30 to +70 °C

IP66

sensor plug M12

N702-SSI THE COMMUNICATIVE



- · Communication interface SSI
- Programmable on site via push-button

magnetic with pendulum

ø 60 mm

0 ... 360°

at 25° tilt <1 sec.

SSI / binary

9...33 VDC

0.05%

14 Bit

Vertical to the measured object

aluminium coated

−30 to +70 °C

IP66

sensor plug M12



N702-INOX

THE EXTREMELY ROBUST

N705-MEMS 4...20mA THE ANALOGUE





N702-INOX HART



- · Seawater resistant stainless steel housing
- Analogue interface 4...20 mA
- Programmable via signal line

magnetic with pendulum

ø 60 mm

0 ... 360°

at 25° tilt <1 sec.

4...20 mA

8...33 VDC

0.05%

14 Bit

Vertical to the measured object

stainless steel INOX AiSi 316Ti (1.4571)

 $-30 \text{ to } +70 \,^{\circ}\text{C}$

IP68

Threaded cable connection with fix connection cable

- · Seawater resistant stainless steel housing
- Digital HART interface
- Programmable via HART interface

magnetic with pendulum

ø 60 mm

0 ... 360°

at 25° tilt <1 sec.

4...20 mA / HART

12...30 VDC

0.05%

14 Bit

Vertical to the measured object

stainless steel INOX AiSi 316Ti (1.4571)

-30 to +70 °C

IP68

Threaded cable connection with fix connection cable

- Analogue interface 4...20 mA
- Free on-site parameterization

Microelectromechanical capacitive tilt angle system

60 x 60 x 30 mm

0 ... 360°

_

4...20 mA

18...33 VDC

0.05%

14 Bit

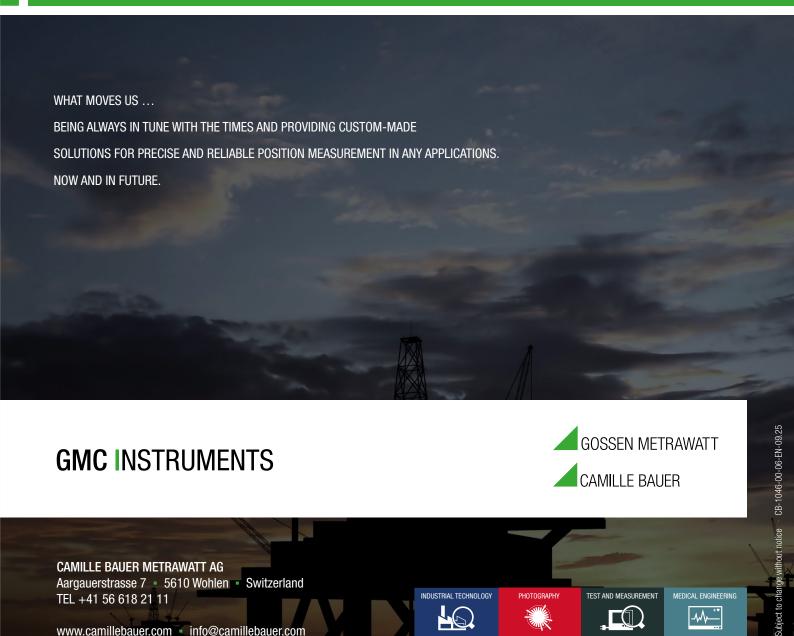
Perpendicular to the measurement object

Aluminium

 $-30 \text{ to } +70 \,^{\circ}\text{C}$

IP67

Connector M12



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