

WEPS-100

Subsea Ordering Specification

1. General specification

The WEPS-Series is divided into three (3) main designs where the main difference is the design of the probe:

- Pressure sensing element at tip of the probe
- Oil filled system with retracted Pressure Sensing Element
- Oil filled system with retracted Pressure Sensing Element and extended housing

For each of the two types, a range of mechanical and electrical interfaces are available in various pressure and temperature ranges.



Three main designs

- Standard Accuracy
Standard Pressure
Standard Temperature
- High Accuracy
High Pressure
High Temperature
- High Accuracy
High Pressure
High Temperature
(suitable for thermal insulated designs)



WEPS-100 series - probe lengths

For all the sensors in the WEPS-100 series, the following range of probe lengths are available:

56 mm to 300 mm

WEPS-100 series - standard flange materials

For all the sensors in the WEPS-100 series, following standard flange materials are available:

- Duplex UNS31803 / Super Duplex UNS32760

Forged to Form

- Alloy 925

WEPS-100 series - standard mechanical interfaces

For the sensors in the WEPS-100 series, following standard flange interfaces are available:

- API 6A 2 1/16" BX 152 10K
- API 6A 2 1/16" BX 152 15K
- API 6A 1 1/16" BX 150 10K
- Others available upon request

WEPS-100 series - pressure sensing element at tip of the probe

Type	Function	Output	Pressure Ranges (Bar)	Pressure Accuracy (%FS)	Temperature Range (°C)	Maximum Pressure rating Mechanical Interface (PSI)	Maximum Overpressure (PSI)
WEPS101	Pressure	4-20 mA	0-400 0-700	+/- 0.1	-50 to + 150	10K	15K
WEPS 102	P&T	2 x 4-20 mA	0-400 0-700	+/- 0.1	-50 to + 150	10K	15K
WEPS 103	DP	2 x 4-20 mA	0-400 0-700	+/- 0.1	-50 to + 150	10K	15K
WEPS 104	DP & DT	4 x 4-20 mA	0-400 0-700	+/- 0.1	-50 to + 150	10K	15K
WEPS 122	P&T	CANopen, SIIS Lv2	0-400 0-700	+/- 0.05	-50 to + 150	10K	15K
WEPS 124	DP & DT	2 x CANopen, SIIS Lv2	0-400 0-700	+/- 0.05	-50 to + 150	10K	15K
WEPS 142	P&T	MODBUS	0-400 0-700	+/- 0.05	-50 to + 150	10K	15K
WEPS 144	DP & DT	2 x MODBUS	0-400 0-700	+/- 0.05	-50 to + 150	10K	15K
WEPS 162	P&T	RS485 KOS	0-400 0-700	+/- 0.05	-50 to + 150	10K	15K
WEPS 164	DP & DT	2 x RS485 KOS	0-400 0-700	+/- 0.05	-50 to + 150	10K	15K

P&T – Pressure and Temperature

DP – Dual Pressure

DT – Dual Temperature

WEPS 100 series - oil filled retracted pressure sensing element

Type	Function	Output	Pressure Ranges (Bar)	Pressure Accuracy (%FS)	Temperature Range (°C)	Maximum Pressure rating Mechanical Interface (PSI)	Maximum Overpressure (PSI)
WEPS106	Pressure	4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 107	P&T	2 x 4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 108	DP	2 x 4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 109	DP & DT	4 x 4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 127	P&T	CANopen	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 129	DP & DT	2 x CANopen	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 147	P&T	MODBUS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 149	DP & DT	2 x MODBUS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 167	P&T	RS485 KOS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 169	DP & DT	2 x RS485 KOS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K

P&T – Pressure and Temperature

DP – Dual Pressure

DT – Dual Temperature

WEPS 100 series - special designed (extended housing for insulation etc)

Type	Function	Output	Pressure Ranges (Bar)	Pressure Accuracy (%FS)	Temperature Range (°C)	Maximum Pressure rating Mechanical Interface (PSI)	Maximum Overpressure (PSI)
WEPS111	Pressure	4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 112	P&T	2 x 4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 114	DP	2 x 4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 115	DP & DT	4 x 4-20 mA	0-700 0-1035	+/- 0.08	-40 to + 180	15K	22.5K
WEPS 132	P&T	CANopen	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 135	DP & DT	2 x CANopen	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 152	P&T	MODBUS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 155	DP & DT	2 x MODBUS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 172	P&T	RS485 KOS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K
WEPS 175	DP & DT	2 x RS485 KOS	0-700 0-1035	+/- 0.025	-40 to + 180	15K	22.5K

P&T – Pressure and Temperature

DP – Dual Pressure

DT – Dual Temperature

WEPS 100 series - temperature transmitters

Type	Function	Output	Pressure Ranges (Bar)	Pressure Accuracy (%FS)	Temperature Range (°C)	Maximum Pressure rating Mechanical Interface (PSI)	Maximum Overpressure (PSI)
WEPS180	T	4-20 mA	NA	NA	-40 to + 180	15K	22.5K
WEPS 181	DT	2 x 4-20 mA	NA	NA	-40 to + 180	15K	22.5K
WEPS 182	T	CANopen SIIS Lv2/ MODBUS/ RS-485 KOS	NA	NA	-40 to + 180	15K	22.5K
WEPS 183	DT	2 x CANopen SIIS Lv2/MODBU S/RS485	NA	NA	-40 to + 180	15K	22.5K

T – Temperature

P&T – Pressure and Temperature

DP – Dual Pressure

DT – Dual Temperature

Published by

Siemens Energy Global GmbH & Co. KG
Transformation of Industry
Siemenspromenade 9
91058 Erlangen
Germany

For the US Published by

Siemens Energy, Inc.
Transformation of Industry
4400 N Alafaya Trail
Orlando, FL 32826
USA

For more information, please visit our website:

[siemens-energy.com/subsea](https://www.siemens-energy.com/subsea)

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

Siemens Energy is a trademark licensed by Siemens AG.