

## VEGAPULS61



### Approval directive / Scope

None / World-wide  
 Shipbuilding / World-wide  
 ATEX / Europe  
 IEC / World-wide  
 FM / USA  
 CSA / Canada  
 UKR Sepro / Ukraine  
 GOST-K/EAC / Kazakhstan  
 NEPSI / China  
 INMETRO / Brazil  
 IA / South Africa  
 KOSHA / Korea  
 IEC / Australia  
 CCOE / India

### Approval

**XX** without  
**XM** Ship approval  
**CX** ATEX II 1G, 1/2G, 2G Ex ia IIC T6  
**CA** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + WHG  
**CM** ATEX II 1G, 1/2G, 2G Ex ia IIC T6 + Ship approval  
**CK** ATEX II 1G, 1/2G, 2G Ex ia IIC + II 1D, 1/2D, 2D Ex t IIIC  
**CI** IEC Ex ia IIC T6  
**DX** ATEX II 1/2G, 2G Ex db ia IIC T5/T6  
**DA** ATEX II 1/2G, 2G Ex db ia IIC T5/T6 + WHG  
**DM** ATEX II 1/2G, 2G Ex db ia IIC T5/T6 + Ship approval  
**DI** IEC Ex ia IIC T6  
**DI** IEC Ex db ia IIC T6  
**CK** IEC Ex ia IIC Ga, Gb + Ex t IIIC T\* Da, Da/Db, Db  
**DK** IEC Ex db ia IIC Ga/Gb, Gb + Ex t IIIC T\* Da, Da/Db, Db  
**GI** ATEX Ex t IIIC T\* Da, Da/Db, Db  
**GX** ATEX II 1/2D IP6X T  
**DI** IEC Ex db ia IIC T6  
**JF** TIIS Ex ia  
**JG** TIIS Ex d ia  
**UX** FM (NI) CL I, DIV2, GP ABCD  
**UA** FM (NI) CL I, DIV2, GP ABCD + Ship approval  
**UF** FM (IS) CL I, II, III, DIV1, GP ABCDEF  
**UB** FM (IS) CL I, II, III, DIV1, GP ABCDEFG + Ship approval  
**UG** FM (XP-IS) CL I, II, III, DIV1, GP ABCDEFG  
**UE** FM (XP-IS) CL I, II, III, DIV1, GP ABCDEFG + Ship approval  
**UR** FM (DIP) CL I, II, III, DIV1, GP E,F,G  
**UD** FM (XP) CL I, DIV1, GP ABCD, (DIP) CL II, III, DIV1, GP EFG  
**KX** CSA (NI) CL I, Div 2, Grp A,B,C,D  
**KF** CSA (IS) CL I, II, III, Div 1, Grp A,B,C,D,E,F,G  
**KR** CSA (DIP) CL I, II, III, Div 1, Grp E,F,G  
**KG** CSA (XP-IS) CL I, II, III, Div 1, Grp A,B,C,D,E,F,G

### SIL qualification

Without  
 with, incl. Safety Manual

### Version / Material / Process temperature

**A** with encapsulated horn antenna (ø40mm) / PVDF / -40...+80°C  
**B** with plastic horn antenna (ø80mm) / PP / -40...+80°C

### Process fitting / Material

**GP** Thread G1½ PN3, DIN3852-A / PVDF  
**NP** Thread 1½NPT PN3, ASME B1.20.1 / PVDF  
**CA** Clamp 2" PN3 (ø64mm) DIN32676, ISO2852 / 316L  
**CB** Clamp 3" PN3 (ø91mm) DIN32676, ISO2852 / 316L  
**RA** Slotted nut DN50 PN3, DIN11851 / 316L  
**RB** Slotted nut DN80 PN3, DIN11851 / 316L  
**TA** Varivent Form N DN40 (1.5"), D=68 / 316L  
**XX** without  
**XG** Counter nut G1½ / PPH  
**XC** Mounting strap, length: 170mm / 316L  
**XD** Mounting strap, length: 300mm / 316L  
**YA** Compression flange suitable for flange 3" 150lb ASME / 316/316L  
**YF** Compression flange suitable for flange 3" 300lb, ASME / 316L  
**YJ** Compression flange suitable for flange 3" 300lb, ASME / PP-GF30  
**YE** Combi compression flange suitable for flanges 3" 150lb, DN80 PN16 / 316L  
**YD** Compression flange suitable for flanges 3" 150lb, DN80 PN16 / PP-GF30  
**AA** Adapter flange DN100 PN6 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)  
**BA** Adapter flange DN100 PN6 / PP-GF30, seal: EPDM (COG AP310)  
**AE** Adapter flange DN100 PN16 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)  
**BE** Adapter flange DN100 PN16 / PP-GF30, seal: EPDM (COG AP310)  
**AL** Adapter flange DN100 PN40 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)  
**BL** Adapter flange DN100 PN40 / PP-GF30, seal: EPDM (COG AP310)



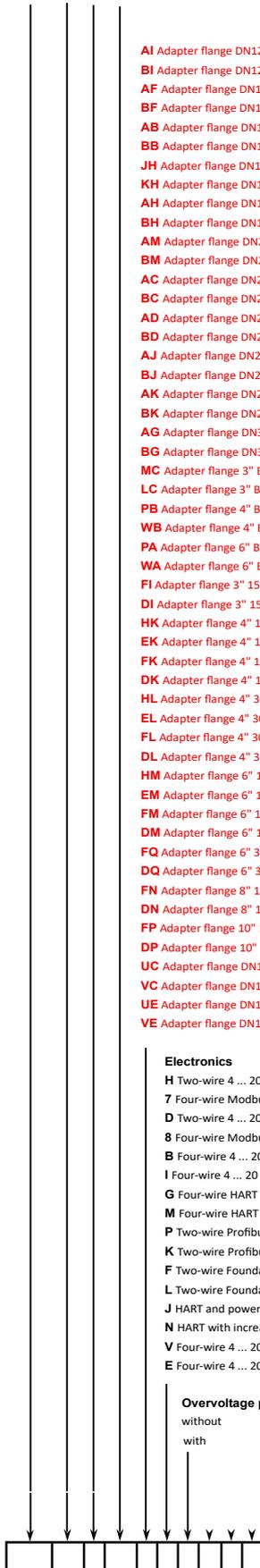
- AI** Adapter flange DN125 PN6 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BI** Adapter flange DN125 PN6 / PP-GF30, seal: EPDM (COG AP310)
- AF** Adapter flange DN125 PN16 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BF** Adapter flange DN125 PN16 / PP-GF30, seal: EPDM (COG AP310)
- AB** Adapter flange DN150 PN6 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BB** Adapter flange DN150 PN6 / PP-GF30, seal: EPDM (COG AP310)
- JH** Adapter flange DN150 PN16 / 316/316L, seal: FKM (SHS FPM 70C3 GLT)
- KH** Adapter flange DN150 PN16 / 316/316L, seal: EPDM (COG AP310)
- AH** Adapter flange DN150 PN16 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BH** Adapter flange DN150 PN16 / PP-GF30, seal: EPDM (COG AP310)
- AM** Adapter flange DN200 PN6 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BM** Adapter flange DN200 PN6 / PP-GF30, seal: EPDM (COG AP310)
- AC** Adapter flange DN200 PN10 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BC** Adapter flange DN200 PN10 / PP-GF30, seal: EPDM (COG AP310)
- AD** Adapter flange DN200 PN16 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BD** Adapter flange DN200 PN16 / PP-GF30, seal: EPDM (COG AP310)
- AJ** Adapter flange DN250 PN10 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BJ** Adapter flange DN250 PN10 / PP-GF30, seal: EPDM (COG AP310)
- AK** Adapter flange DN250 PN16 / PP-GF30, seal: FKM (SHS FPM 70C3GLT)
- BK** Adapter flange DN250 PN16 / PP-GF30, seal: EPDM (COG AP310)
- AG** Adapter flange DN300 PN10 / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- BG** Adapter flange DN300 PN10 / PP-GF30, seal: EPDM (COG AP310)
- MC** Adapter flange 3" BS.10 Table E / 316/316L, sealing: EPDM (COG AP310)
- LC** Adapter flange 3" BS.10 Table E / 316/316L, sealing: FKM (SHS FPM 70C3 GLT)
- PB** Adapter flange 4" BS.10 Table E / PP-GF30, seal: EPDM (COG AP310)
- WB** Adapter flange 4" BS.10 Table E / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- PA** Adapter flange 6" BS.10 Table E / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- WA** Adapter flange 6" BS.10 Table E / PP-GF30, seal: EPDM (COG AP310)
- FI** Adapter flange 3" 150lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DI** Adapter flange 3" 150lb, ASME / PP-GF30, seal: EPDM (COG AP310)
- HK** Adapter flange 4" 150lb, ASME / 316/316L, seal: FKM (SHS FPM 70C3 GLT)
- EK** Adapter flange 4" 150lb, ASME / 316/316L, seal: EPDM (COG AP310)
- FK** Adapter flange 4" 150lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DK** Adapter flange 4" 150lb, ASME / PP-GF30, seal: EPDM (COG AP 310)
- HL** Adapter flange 4" 300lb, ASME / 316/316L, seal: FKM (SHS FPM 70C3 GLT)
- EL** Adapter flange 4" 300lb, ASME / 316/316L, seal: EPDM (COG AP310)
- FL** Adapter flange 4" 300lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DL** Adapter flange 4" 300lb, ASME / PP-GF30, seal: EPDM (COG AP310)
- HM** Adapter flange 6" 150lb, ASME / 316/316L, seal: FKM (SHS FPM 70C3 GLT)
- EM** Adapter flange 6" 150lb, ASME / 316/316L, seal: EPDM (COG AP310)
- FM** Adapter flange 6" 150lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DM** Adapter flange 6" 150lb, ASME / PP-GF30, seal: EPDM (COG AP310)
- FQ** Adapter flange 6" 300lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DQ** Adapter flange 6" 300lb, ASME / PP-GF30, seal: EPDM (COG AP310)
- FN** Adapter flange 8" 150lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DN** Adapter flange 8" 150lb, ASME / PP-GF30, seal: EPDM (COG AP310)
- FP** Adapter flange 10" 150lb, ASME / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- DP** Adapter flange 10" 150lb, ASME / PP-GF30, seal: EPDM (COG AP310)
- UC** Adapter flange DN100 10K, JIS / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- VC** Adapter flange DN100 10K, JIS / PP-GF30, seal: EPDM (COG AP310)
- UE** Adapter flange DN150 10K, JIS / PP-GF30, seal: FKM (SHS FPM 70C3 GLT)
- VE** Adapter flange DN150 10K, JIS / PP-GF30, seal: EPDM (COG AP310)

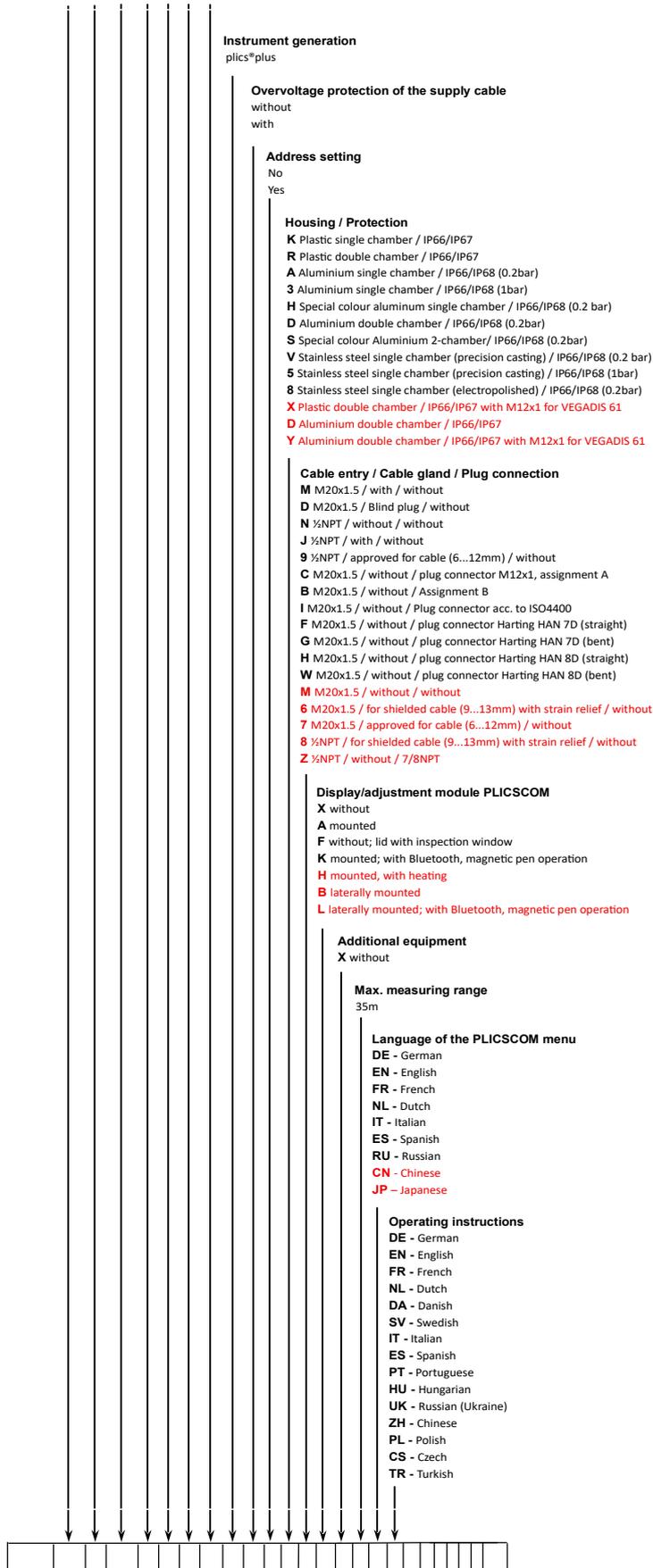
**Electronics**

- H** Two-wire 4 ... 20 mA/HART
- 7** Four-wire Modbus (converter in second chamber)
- D** Two-wire 4 ... 20 mA/HART with increased sensitivity
- 8** Four-wire Modbus with increased sensitivity (converter in second chamber)
- B** Four-wire 4 ... 20 mA/HART; 90 ... 253 V AC; 50/60 Hz
- I** Four-wire 4 ... 20 mA/HART; 9.6 ... 48 V DC; 20 ... 42 V AC
- G** Four-wire HART 90 ... 253 V AC; 50/60 Hz with increased sensitivity
- M** Four-wire HART 9.6 ... 48 V DC; 20 ... 42 V with increased sensitivity
- P** Two-wire Profibus PA
- K** Two-wire Profibus PA with increased sensitivity
- F** Two-wire Foundation Fieldbus
- L** Two-wire Foundation Fieldbus with increased sensitivity
- J** HART and power pack
- N** HART with increased sensitivity and power pack
- V** Four-wire 4 ... 20 mA/HART
- E** Four-wire 4 ... 20 mA/HART with increased sensitivity

**Overvoltage protection of the supply cable**

- without
- with





## Others

Unit: m

### Number of operating instructions

1...1000

### Additional cleaning procedure

Without

Oil, grease and silicone oil-free (incl. 3.1 Inspection certificate)

### Certificate / Standard

without

(D) 3.1-Inspection certificate for instrument with test data (EN 10204)

(Q) Quality and Test plan

(D+Q) 3.1-Inspection certificate for test data + Quality and test plan (EN 10204)

(C) 3.1-Inspection certificate for material (EN 10204)

(C+D) 3.1-Inspection certificate for material + Instrument with test data (EN 10204)

(C+Q) 3.1-Inspection certificate for material + Quality and test plan (EN 10204)

(C+D+Q) 3.1-Inspection certificate for material + Instrument with test data + Quality and test plan (EN 10204)

### Test certificate

without

Accuracy

### Helium leak test

without

with (1.00\*E-06 mbar l/s), incl. 3.1 Inspection certificate

with (1.00\*E-07 mbar l/s), incl. 3.1 Inspection certificate

### High voltage test

without

with, incl. 3.1 Inspection certificate

### Low temperature test at -60 °C

without

with, incl. 3.1 Inspection certificate

### Durability test more than 360 h

without

with, incl. 3.1 Inspection certificate

### Suitable for tropical regions

without

with, all attachment parts of metal (incl. 2.1 Factory certificate)

### Supply certificates

with goods

with goods and separately via courier

no choice