



Features and Benefits

- Ability to view in real-time measured contamination results via Wireless Connection or *Bluetooth*® wireless technology with the FluMoS Mobile App
- Storage of the measured data directly on the CSI-C-11
- Easily interface digital sensors into existing LAN network
- Direct connection of up to two (2) SMART sensors via M12x1 connectors
- Integral bracket allows for easy installation on existing machines
- Due to high protection class of IP66, no switch cabinet for installation is required



- Usable with FluMoS Mobile App

Market Applications

- Construction Equipment
- Agricultural Machinery
- Test Benches
- Industrial Hydraulic Systems
- Combination with Filter Unit
- Power Units
- Any hydraulic system that requires on-line monitoring
- Mobile and Stationary Mining Equipment

The ConditionSensor Interface CSI-C-11 is used to transmit digital sensor signals into a network protocol (HSI TCP/IP or Modbus® TCP), which can be transmitted to a stationary or mobile device via network cable (LAN) or wireless connection (W-LAN). Moreover, the CSI-C-11 is equipped with an internal memory and can be used as a data logger.

At the interface module, up to two sensors can be connected via M12 connector and supplied with power. In addition, the CSI-C-11 is equipped with an Ethernet connector (M12x1 socket), which allows the integration of connected sensors into company networks and control systems (PLC).

Description

HSI Interface: Schroeder Sensor Interface for digital coupling of sensors

Ethernet Protocol:
 10 Base-T / 100 Base-TX HSI TCP/IP (Port 49322)
 W-LAN (HSI only) Modbus® TCP (Port 502)
 2,4 GHz, IEEE 802.11 b/g/n:

Operating temp. range: -13 to 185°F (-25 to 85°C)

Storage temp. range: -22 to 185°F (-30 to 85°C)

Relative humidity: 0 ... 70 %, non-condensing

CE marked: EN 61000-6-2, EN 61000-6-4

Protection class according to DIN 40050: IP 66

Supply Voltage: 12 ... 24 V DC ± 10 %

Current requirement (module): 100 mA (plus the consumption of the connected sensors)

Sensor supply: 12 ... 24 V DC (looped through)

Electrical connection: Supply voltage: Connector, M12, 5-pole, male
 SMART Sensor 1: Connector, M12, 8-pole, female
 SMART Sensor 2: Connector, M12, 5-pole, female
 LAN: Connector, M12, 4-pole, coding D (according to IEC61076-2-101), female
 W-LAN antenna: Connector, RP-SMA socket, female

Parameterisation: via connector M12x1, 5-pole acc. to DIN VDE 0627 or W-LAN (FluMoS mobile)

Dimensions: 5.2" x 3.1" x 1.4"
 (131 x 77.5 x 35.5 mm)

Housing: die cast aluminium

Weight: 0.79 lb. (≈ 360 g)

Size: 64 mB

Specifications

- CS 1000
- CS 1939
- CSI-C-11
- HY-TRAX®
- RBSA
- CSM
- FCU
- MCS
- AS
- SMU
- CTU
- EPK
- Trouble Check Plus
- HMG2500
- HMG4000
- ET-100-6
- HTB
- RFSA
- HFS-BC
- HFS-15
- MFD-BC
- MFS, MFD
- HY-TRAX® Retrofit System
- MFD-MV
- MFS-HV
- AMS, AMD
- FS
- AMFS
- KLS, KLD
- MCO
- AKS, AKD
- LSN, LSA, LSW
- X Series
- OLF Compact
- OLF
- OLF-P
- NxTM
- VEU-F
- IXU
- Triton-A
- Triton-E
- NAV
- SVD01
- SVD
- OXs
- Appendix

Model Number Selection

How to Build a Valid Model Number for a Schroeder CSI-C-11:



Example: NOTE: One option per box

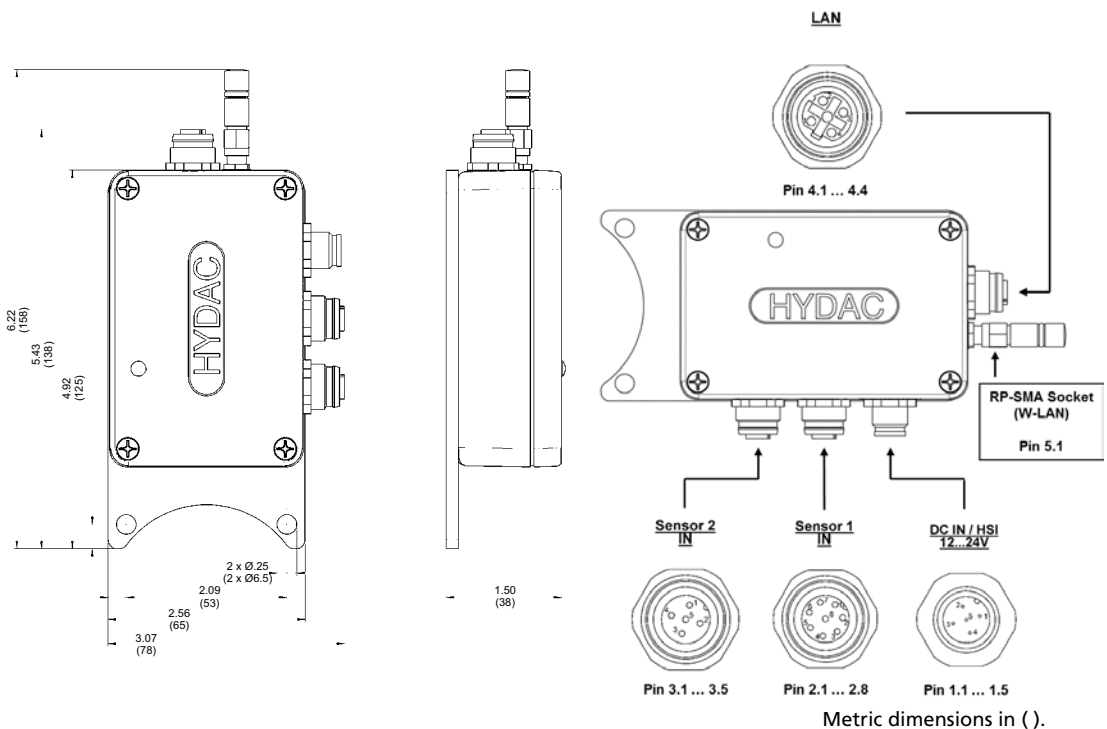


BOX 1	BOX 2	BOX 3	BOX 4
Type	Housing	Output Type	Modification
CSI	C = Aluminum Housing	11 = HSI Ethernet / W-LAN	000 = Standard

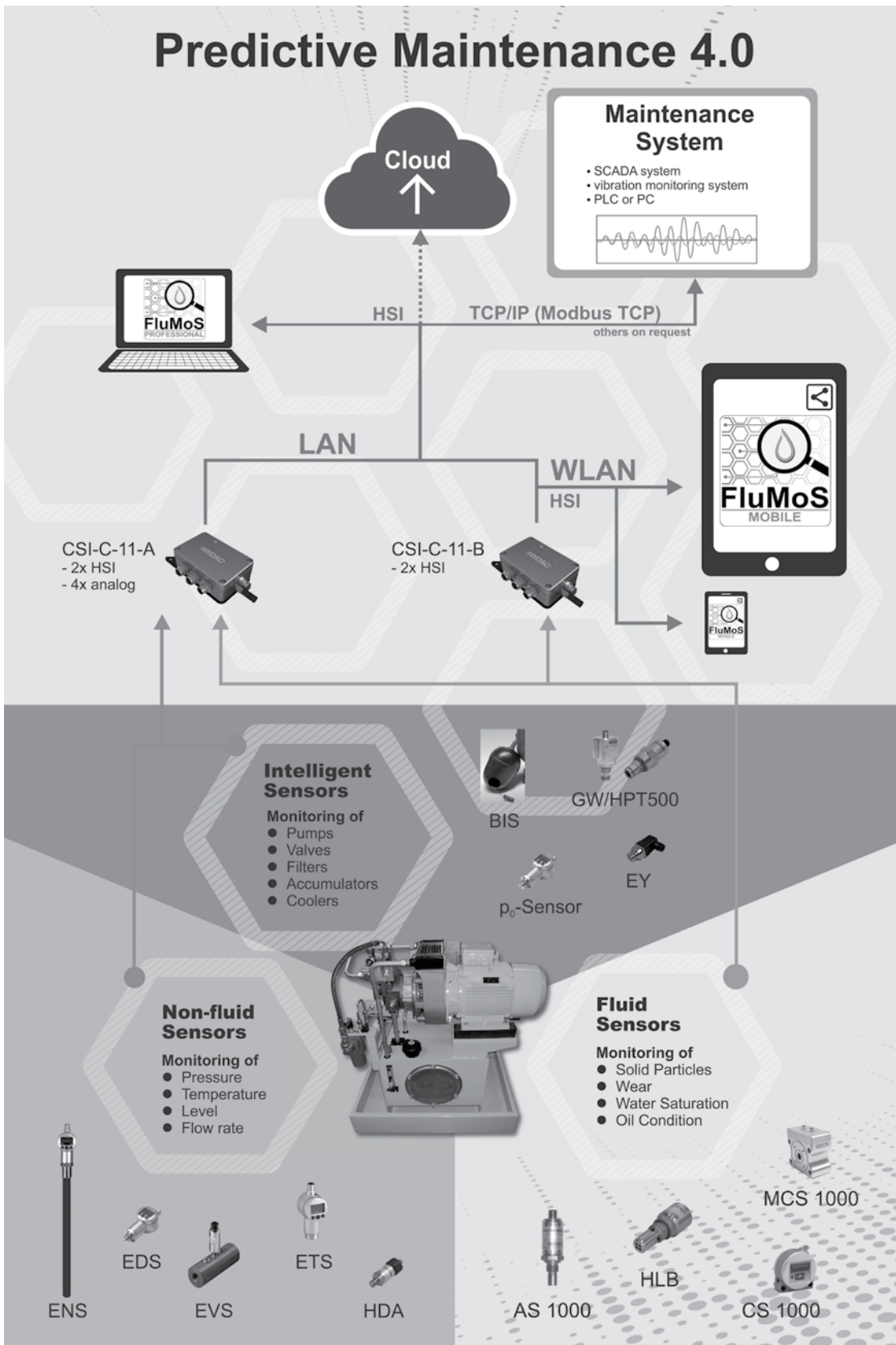
Accessories

Designation	Part-No.
Supply voltage	
PS5 power supply 100 – 240V AC, 50-60 Hz, 1,1 A, IP40; connector M12, 5-pole, female	3399939
ZBE-43-05 connecting cable, connector 5-pole with cable, length = 16.4 ft. (5 m)	3281240
ZBE-43-10 connecting cable, connector 5-pole with cable, length = 32.8 ft. (10 m)	3519768
Sensor connection cable for CSM-E	
ZBE43-005 connecting cable CSI-C-11, coupling / plug 8-pole, length = 1.6 ft. (0.5 m)	4193544
ZBE30-005 connecting cable CSI-C-11, coupling / plug 5-pole, length = 1.6 ft. (0.5 m)	4193586
Network cable (LAN)	
ZBE 45-05 network cable (Patch), connector 4-pole, coding D / connector RJ45, length = 16.4 ft. (5 m)	3346100
ZBE 45-10 network cable (Patch), connector 4-pole, coding D / connector RJ45, length = 32.8 ft. (10 m)	3346101

Dimensions



Predictive Maintenance



Plug Pin Assignment

Pin	Signal	Description	
1.1	Vin 12 ... 24 V DC	Device (CSI-C-11)	Power supply +
1.2	---	Device (CSI-C-11)	n.a.
1.3	GND	Device (CSI-C-11)	Power supply GND
1.4	---	Device (CSI-C-11)	n.a.
1.5	HIS	Device (CSI-C-11)	Parameterisation
2.1	S1 12 ... 24 V DC	Sensor 1	Power supply +
2.1	---	Sensor 1	n.a.
2.3	S1 GND	Sensor 1	Power supply GND
2.4	---	Sensor 1	n.a.
2.5	S1 HIS	Sensor 1	HSI signal
2.6	---	Sensor 1	n.a.
2.7	---	Sensor 1	n.a.
2.8	---	Sensor 1	n.a.
3.1	S2 12 ... 24 V DC	Sensor 2	Power supply +
3.2	---	Sensor 2	n.a.
3.3	S2 GND	Sensor 2	Power supply GND
3.4	---	Sensor 2	n.a.
3.5	S2 HIS	Sensor 2	HSI signal
4.1	ETH TX+	Network (LAN)	Ethernet port data transmission +
4.2	ETH RX+	Network (LAN)	Ethernet port data receive +
4.3	ETH TX-	Network (LAN)	Ethernet port data transmission -
4.4	ETH RX-	Network (LAN)	Ethernet port data receive -
5.1	ANT	Network (W-LAN)	RP-SMA-socket W-LAN-antenna