

ConditionSensor Interface

CSI-C-11

CS 1000

CS 1939

CSI-C-11



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

HY-TRAX®

RBSA

CSM

TFL

TFH

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

IXU

Triton-A

Triton-E

NAV

SVD01

SVD

OXS

Appendix

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

Specifications

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:	HTTP (port 80) FTP (port 20/21) SMTP (port 25) MQTT REST-API
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
- marked:	EN 61000-6-2, EN 61000-6-4
Protection class according to DIN 40050:	IP 66
⚡ 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

Model Number Selection

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



Example: NOTE: One option per box

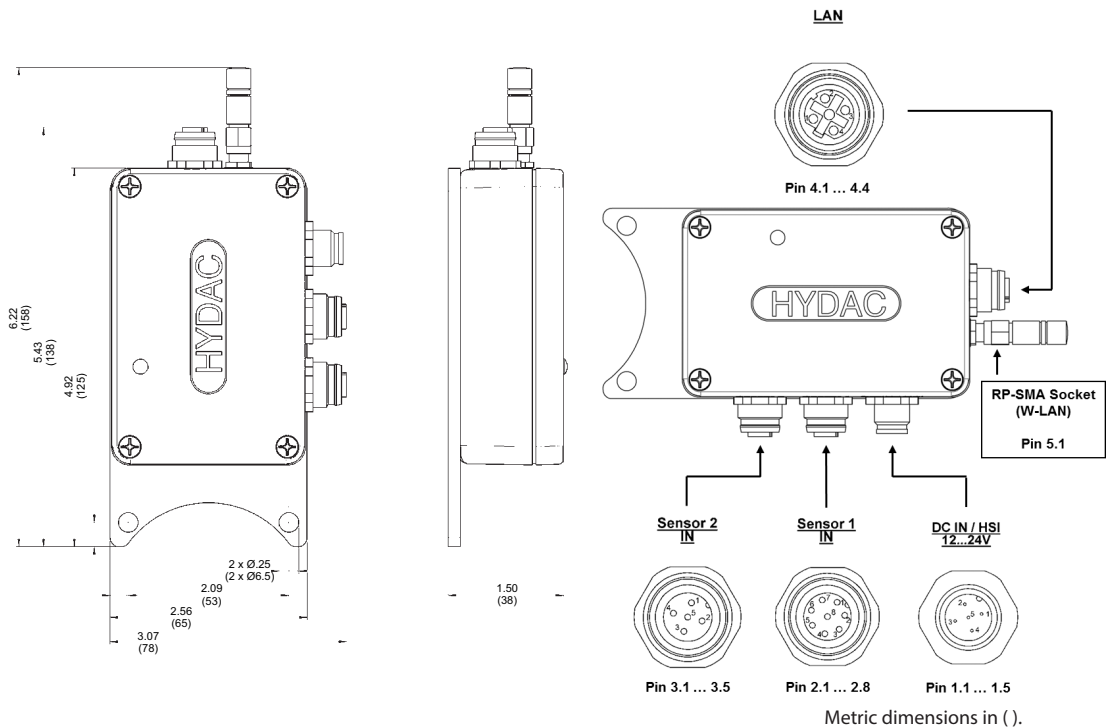


BOX 1	BOX 2	BOX 3	BOX 4
Type	Housing	Output Type	Modification
CSI	C = Aluminum Housing	11 = HSI Ethernet / W-LAN	000 = Standard

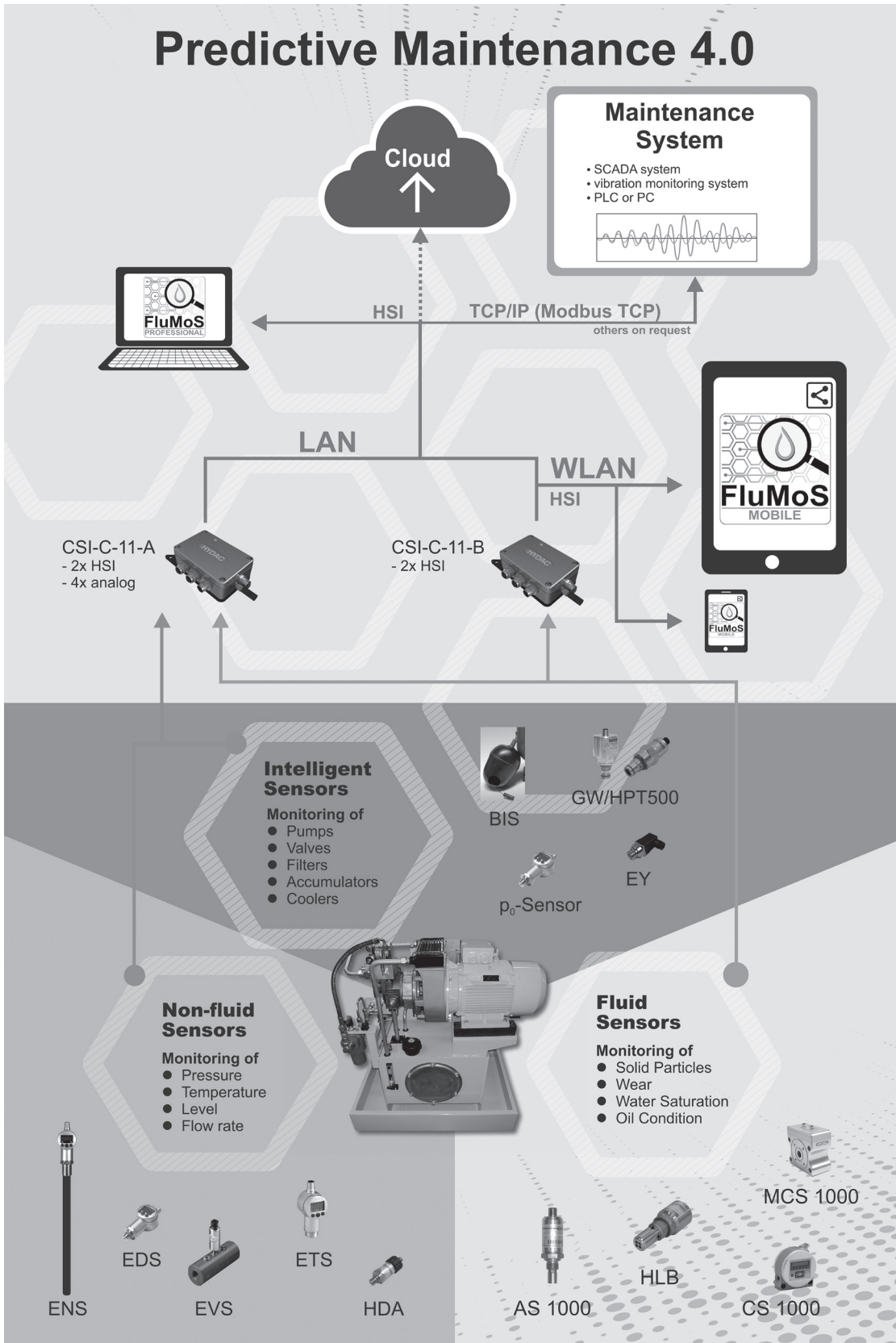
Accessories

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