

The Kytola® KLD Smart Touchscreen Display is designed to monitor and display flow rates and flow alarms measured by Kytola oval gear meters or other flow meters with pulse outputs.

KLD Smart is conveniently operated using a touchscreen, which enables easy monitoring of flow rates and alarms, and management of settings.



- Single or multi-channel models
- Stand-alone or connected to Kytola monitoring software or 3rd party system
- Pulse or mA input
- mA output
- Alarm relay
- Modbus RTU (RS-485), Modbus TCP (Ethernet) communication
- IP65
- Robust steel enclosure



TOUCHSCREEN DISPLAY KLD SMART

FEATURES

- Flow measurement
- Totalizer counter and batching
- Multiple flow units
- Multiple flow alarm levels
- Visible indication of alarm type

TYPICAL APPLICATIONS

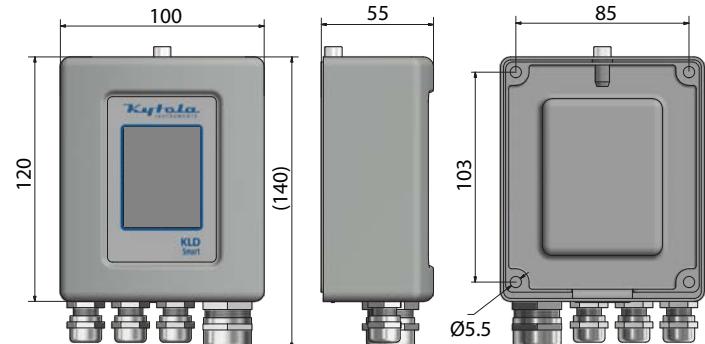
- Lubrication oil flow monitoring
- Industrial flow monitoring
- Process control
- Batching

Model	KLDS-1	KLDS-8
Supply voltage	10 – 30 VDC	10 – 30 VDC
Supply current (maximum)	60 mA	60 mA (190 mA with mA outputs)
Sensor types	Kytola coil, NAMUR, NPN, PNP	Kytola coil, NAMUR, NPN, PNP
Input frequency	0 – 5 kHz	0 – 5 kHz
Communication	Modbus RTU (RS-485), *Modbus TCP (Ethernet)	Modbus RTU (RS-485), *Modbus TCP (Ethernet)
Current output	*1 pc, 4 – 20 mA	*8 pcs, 4 – 20 mA
Current input	1 pc; linear, square root, table	None
Relay output	1 pc NC, max. 48 VAC/DC, 100 mA	1 pc NC, max. 48 VAC/DC, 100 mA
Enclosure	Painted steel, *stainless steel AISI 316	Painted steel, *stainless steel AISI 316
Protection class	IP65	IP65
Ambient temperature	–20°C...+60°C (relative humidity < 85 %, non-condensing)	–20°C...+60°C (relative humidity < 85 %, non-condensing)
Dimensions	100 x 140 x 55 mm	149 x 160 x 80 mm
Weight	0.7 kg	1.5 kg

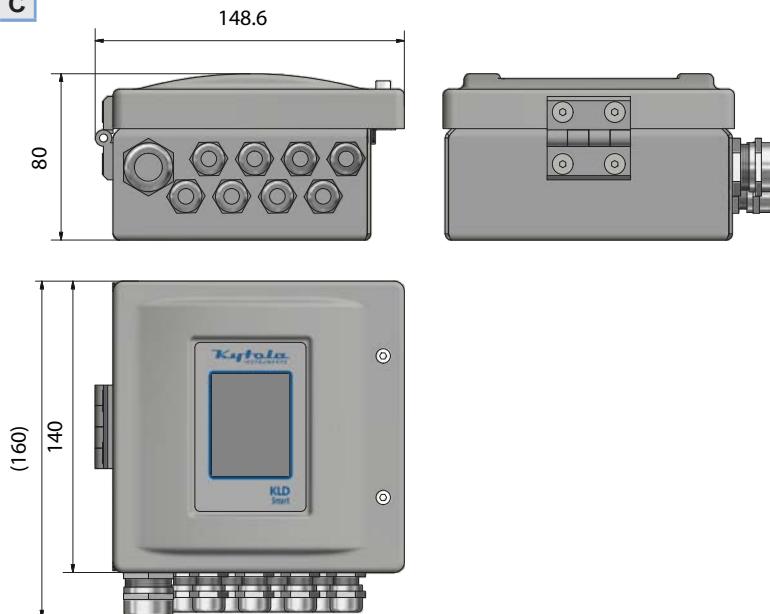
* Special construction

KLDS-		█	█	█	█	█	█
Number of Input Channels							
1 channel	1						
1–8 channels	8						
Outputs							
Relay output	0						
Relay and mA output	M						
Communication							
RS-485/Modbus RTU	0						
RS-485/Modbus RTU and Ethernet/Modbus TCP	E						
Enclosure							
Painted steel	0						
Stainless steel AISI 316	H						
KLDS-8 only							
KLDS-8 mounted on the left of the SR meter block		A	C				
KLDS-8 without the SR meter block							

KLDS-1



KLDS-8



KLDS-8



KLDS-8 with SR6 meter block

KYTOLA® OVAL D2 Measuring Station is designed to monitor oil flow rates measured by Model SR oval gear meters in circulation lubrication systems.



MEASURING STATION OVAL D2

- Communication with upper level systems
- In excess of 100 measuring stations and thousands of measuring points in one serial line
- Modbus RTU or KytolaKVM protocol
- Serial interface RS485/RS422
- USB port for local configuration
- Measuring units:
L/min, pulses/min, PPM or USGPM
- Kytola coil or NAMUR sensor

The OVAL D2 measuring station operates as an independent station, or it can be connected to Kytola KVM Control monitoring software or to customer's PLC or DCS via Modbus RTU protocol.

FEATURES

Painted or stainless steel enclosure, IP 65

Local display and keyboard

Alarm relays, inhibits, and groups

TYPICAL APPLICATIONS

Lubrication oil flow monitoring

Industrial flow monitoring

Process control

OVAL D2

TECHNICAL DATA

Model

Enclosure

Supply voltage

Ambient temperature

Display

Communication

Measuring points / station

Alarm relays

Alarm inhibition inputs

Sensor types

Weight

OVAL D2

Painted steel (*stainless steel AISI 316), IP65

24 VDC ±25% / 0.6A or 110–240 VAC / 50–60Hz

–20°C...+60°C (relative humidity < 85%, non-condensing)

4 x 20 characters and 4 pushbuttons

Modbus RTU or KytolaKVM (RS485/RS422) protocol

Max. 64 points with Modbus RTU protocol
or max. 48 points with KytolaKVM protocol

3 potential-free relays for high-flow, low-flow, and
very-low-flow alarms + 1 programmable relay

3 optoisolated inputs to prevent alarms

Kytola coil or NAMUR sensor; EN 60947

6.2 kg

*On special request

OVAL D2 - - -

Number of Measuring Points

16	16
32	32
48	48
64	64

Power Supply

24 VDC ±25% / 0.6A (standard, leave blank)
110–240 VAC / 50–60 Hz

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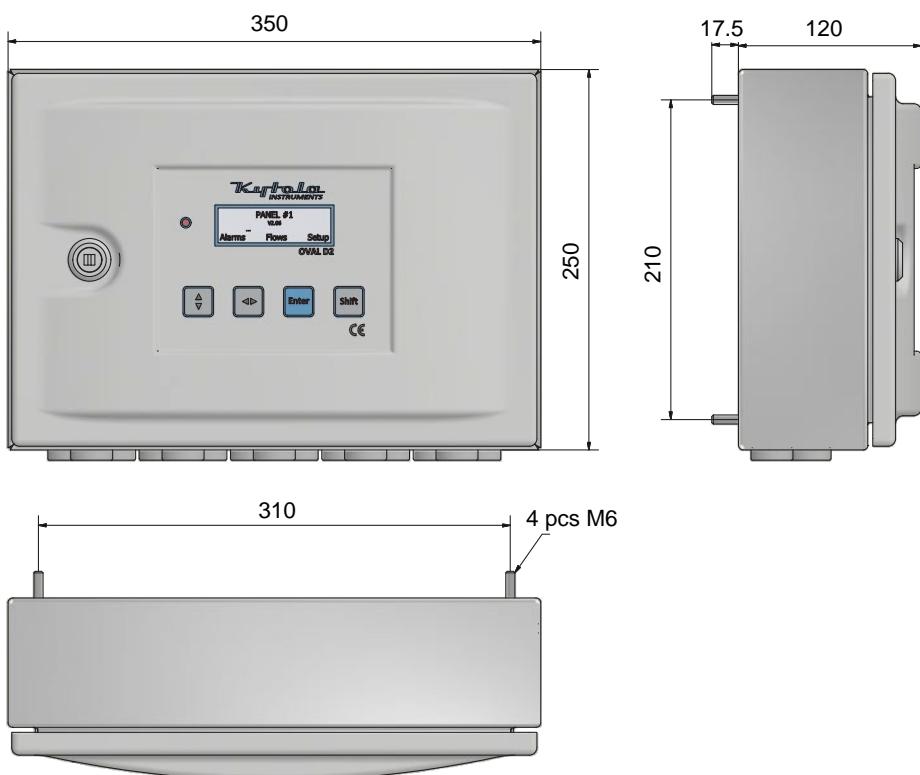
Enclosure

Painted steel (standard, leave blank)
Stainless steel AISI 316

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OVAL FLOW panel with OVAL D2
and SR6 meters



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