

LOCAL CONTROL PANEL FOR VG9000H LCP9 SERIES

Local Control Panel (LCP) is designed for controlling the emergency isolation valve (ESD or ESV) locally nearby the valve via Neles ValvGuard VG9000 intelligent solenoid valve.

LCP permits the emergency isolation valve to be closed (or opened) locally and permits the valve to be returned to the normal operating position when the trip initiators are normal (Manual Reset - function). There is also functional testing (Partial Stroke Testing, PST) possibility of the emergency isolation valve. Indicators (LEDs) for the valve position (open/ close), ready to reset, testing and alarm status are included too.

Communication between the LCP and VG9000 is handled by a current loop. LCP has two options for the supply power; external 24 VDC or loop powered. In the loop power version the supply power is taken from the input loop for VG9000H.



TECHNICAL SPECIFICATIONS

VG9000H compatibility

- Externally powered (24 VDC) LCP versions are compatible with VG9000H with L2 option.
- Loop powered LCP versions are compatible with VG9000H with L3 option.
- See the LCP type coding for different LCP versions.

Power supply

- Loop powered version: Taken from VG9000H input signal. Min. input signal from safety system to VG is 8 mA.
- Externally powered version: 24 V DC (min. 11 V DC), 50 mA

Materials and enclosure protection class

- 316L stainless steel, IP66 (Ex i & e version)
- Low copper content aluminum alloy with epoxy coating, IP66 (Ex d -version)

Temperature range

- -20° to +85 °C (Ex i)
- -20° to +65 °C (Ex d & Ex e)

APPROVALS

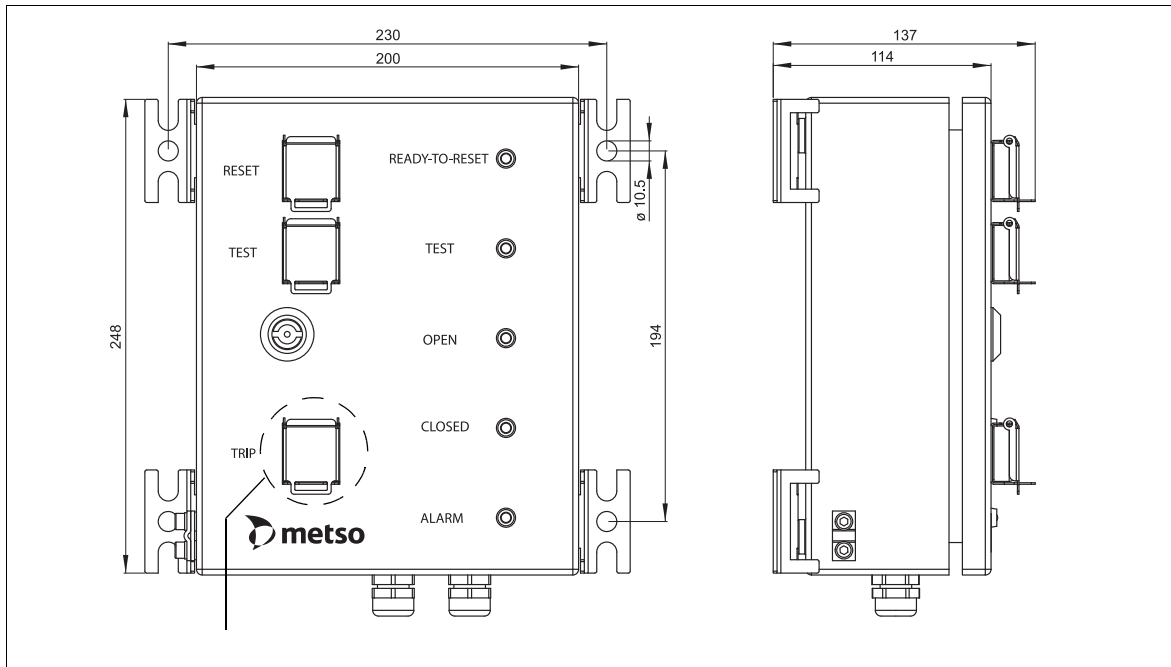
Intrinsically safe

- ATEX/ IECEx
 - Ex ia IIC T6...T4 Gb, Ex ic IIC T6...T4 Gc, Ex eb mb [ib] IIC T6...T4 Gb
- INMETRO
 - Ex ia IIC T6...T4 Gb, Ex ic IIC T6...T4 Gc

Flameproof and explosion proof

- ATEX / IECEx
 - Exd IIB+H² T6 Gb, Ex tb IIIC T85 °C Db
- INMETRO
 - Ex d IIB+H² T6 Gb, Ex tb IIIC T85 °C Db

Dimensions (Ex i & e version)



Full product details and Ex d versions' dimensions can be seen in the Installation, Maintenance and Operating Instructions (7LCP9H70EN)

Type coding

1. sign		PRODUCT GROUP				
LCP		Local Control Panel				
2. sign		SERIES CODE				
9		Compatible with VG9000				
3. sign		COMMUNICATION				
H		Suitable for VG9000 HART version				
4. sign		ENCLOSURE / APPROVALS				
-		Stainless steel 316L, IP66 / ATEX & IECEx Ex ia, ic, eb mb [ib]				
E		Low copper content aluminum alloy with epoxy coating, IP66 / ATEX & IECEx Ex d, Ex tb				
5. sign		BUTTONS				
-		Standard version with all buttons. Buttons can be locked.				
W		Like standard version, but trip-button is removed.				
6. sign		SUPPLY POWER				
-		External powered 24 VDC version. Requires L2 option in VG9000H				
L		Loop powered version, min. input signal 8 mA. Requires L3 option in VG9000H				
LCP	9	H	L	Example code: LCP9HL		
1.	2.	3.	4.	5.	6.	sign

Subject to change without prior notice.

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