For Your Convenience: This File Is Shared By Diesel Parts Direct

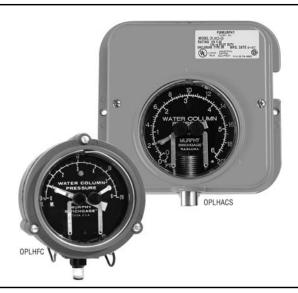


YOUR ONE STOP SUPERSTORE FOR DIESEL ENGINE PARTS





4-1/2 in. (114 mm) Dial Level Swichgage[®] Instrument OPLH / OPLHACS Series



Features

- Combination Level Indicating Gage and Critical Level Limit Switch
- High and Low Level Limit Contacts Are Visible and Adjustable
- Designed to Start and Stop Pumps to Maintain Specific Levels
- Indication only Murphygage® instrument Available
- Latching Control Relay Versions Available





Selected configurations are third party listed. Consult FWMurphy for details.

The OPLHC/OPLHACS Series Level Swichgage instruments are combination level indicating gages with adjustable low and high limit switches. Limit switches can be wired directly to electric pilot circuits to operate alarms, shutdown or start/stop pumps to maintain predetermined levels.

Surface mount or panel mount enclosure is available for both model series. All models feature a 4-1/2 in. (114 mm) dial for easy viewing. Adjustable limit switches are accessible from front of the Swichgage instrument.

Specialized models are available for specific applications involving engines or electric motors.

OPLHC/OPLHACS

Series Swichgage instruments include 2-adjustable, pilot duty, pointer type contacts. Contacts have self-cleaning motion to enhance electrical continuity. Models are available with a rugged bourdon-tube or 316 stainless steel bellows sensing element for greater accuracy and sensitivity in lower ranges. A "freeze-proof" sensor of 316 stainless steel with Buna-N rolling diaphragm, is available.

OPLHBP/OPLHABPS

Internal latching control relays are available to provide ON/OFF automation for electric motor applications.

OPLHC and OPLHACS series are available in indication only Murphygage models (OPLHAGS). See Page 2 to determine the model for your application.

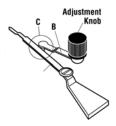
Applications

- Saltwater Disposal Systems
- Waterflood Systems

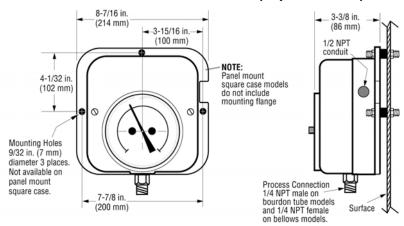
- Diesel Day Tanks
- Oil Storage Tanks

Basic Operation

The OPLHC/OPLHACS series operate from static head pressure. Pressure is transmitted to the process connection of the Swichgage instrument. From here the pressure flexes the bourdon tube or operates the 316 stainless steel bellows (depending on which model you have). The bourdon tube/bellows operates the stainless steel rotary geared movement which in turn operates the indicating pointer on the face of the dial. When the pointer (A) closes with the limit contact (B), a control circuit (C) is completed and signals an alarm and/or shut down or starts/stops a pump.

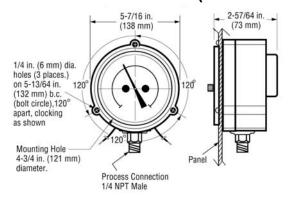


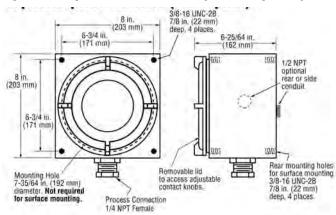
Surface / Panel Mount Enclosure (Square Case)



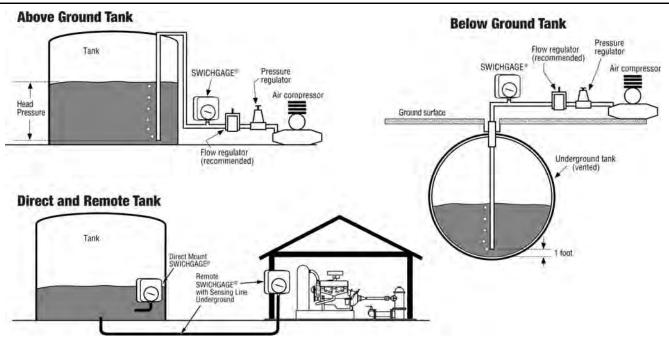
Panel Mount Enclosure (Round Case)

Explosion-proof Enclosure ("EX" Option)





Typical Applications



Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to http://www.fwmurphy.com/warranty

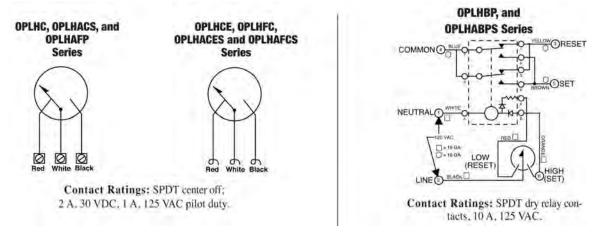
Specifications	OPLH / OPLHA Series															
Enclosure Type (die cast aluminum)				Ĺ												
Surface mount, square case	•							•			•		•			
Panel mount, round case												•				
Panel mount, square case		-	•			•				•		1 = 1				
Limit Switch Ratings				117												
 Pointer Contacts: SPDT center off; 2 A, 30 VDC, 1 A, 125 VAC. 	•		•	•		•	•	•				111				
Latching Control Relay										Tib.						
SPDT,10 A @ 120 VAC (standard)						100	•			•						
DPDT, 12 VDC (Optional)		200		51			•	•		•		HIC				
DPDT, 24 VAC (Optional)		-												-		
DPDT, 24 VDC (Optional)																
Sensing Element																
Bourdon Tube, Bronze/Brass (standard)			•							doub!						
Bellows, 316 Stainless Steel (standard)						•						17	•	•		•
Freeze-proof Sensor, 316 St. Steel w/Buna-N diaphragm																
Process Connections				124					0		10	140				
• 1/4 NPT Male							•	1			•					
• 1/4 NPT Female		1										17.				
• 2 NPT Male		+ +		100		-				-		111				
Geared Movement: 300 series stainless steel.																
Accuracy (standard calibration is for water)																
• ±2% first/last quarters of scale, 1% middle half scale. (1)(3)	•	•	•	•		•	•	•	•		•	•	•	•	•	•
OPTIONS AVAILABLE (specify when ordering)																
 Environment sealed for isolation from the elements (ES). (2) 												•				
 Explosion-proof case; Class I, Div. 2, Groups C & D (EX) 	•			•			•					H	-	-	_	
Explosion-proof less case; internal gage mechanism without case (EL)	•			•			•	•								
 Less case; internal gage mechanism without case (LC) 								•		•						
Tickler contact (TA)		50			•							110		15		
RANGES AVAILABLE (specify when ordering)																
• 0-5 ft. (0-1.5 m) dual scale dial		100						•		•	100	T.			•	
• 0-10 ft. (0-3 m) dual scale dial		1.1	-									1, 77			•	•
• 0-20 ft. (0-6 m) dual scale dial	•				•			•		•					•	
• 0-30 ft. (0-9 m) dual scale dial	•			•	•						•			•	•	
• 0-60 ft. (0-18 m) dual scale dial						7.1						•				
0-120 ft. single scale dial				15			•	1		. 1						
0-3.6 metres single scale dial		1						•		•		11				
0-4 metres single scale dial																
0-6 metres single scale dial		-			•	•		•		•		100		•		
0-9 metres single scale dial															•	

- (1) Bourdon tube (OPLHC) models in the 20 ft. (6m) range have an accuracy of 3% full scale.
- (2) ES option available for the 20 ft. (6 m) range models and above. (3) OPLHAC (Bellows) models, 0-5' 3% FS, 0-10' 2% FS.

- Options may not be available in combination. Consult factory.
- Over range is not to exceed 10% FS above full range.
- Calibration is for water. Specify for other liquids.
- Add TOTAL height of liquid above the pressure connection to determine correct range (dial scale). For elevated tanks substract the tank elevation from gage reading to determine actual tank level.

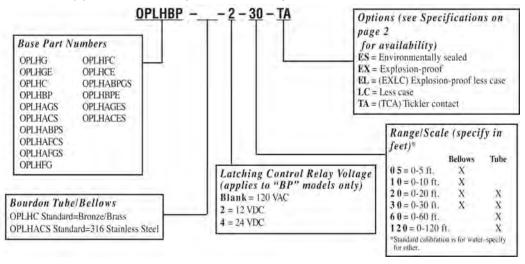
Shipping Dimensions Item Dimensions:16 x 11 x 5-1/2 in. (406 x 279 x 140 mm). Explosion-proof models: 12 x 12 x 9 in. (305 x 305 x 229 mm).

Shipping Weights
Item Weight: 8 lb. (3.6 kg) approximately.
Explosion-proof models: 22 lb. (10 kg) approximately.



How to Order

Specify model number. **NOTE:** No designator is required for Standard configurations. Also, list options in alphabetical order (A to Z). Place a dash (–) between each option. See example below.



Tamperproof Contact Accessory

