Pressure Transmitter



Datasheet

Subject to technical alteration Issue date: 11.06.2025 • A142



» APPLICATION

For pressure detection in liquid mediums for air conditioning, heating and water application. Also suitable for plants with refrigerant.

»TYPES AVAILABLE

	1/4 inch connection	½ inch connection
Pressure transmitter – active 010 V	DLF02 <range> V HS G1/4"</range>	DLF02 <range> V HS G1/2"</range>
Pressure transmitter – active 010 V	DLF02 <range> V M12 G1/4"</range>	DLF02 <range> V M12 G1/2"</range>
Pressure transmitter – active 420 mA	DLF02 <range> A HS G1/4"</range>	DLF02 <range> A HS G1/2"</range>
Pressure transmitter – active 420 mA	DLF02 <range> A M12 G1/4"</range>	DLF02 <range> A M12 G1/2"</range>

<range> measuring ranges: 0..4 (0..58) | 6 (87) | 10 (145) | 16 bar (232 psi) | 25 bar (362)...other measuring ranges please request

» SECURITY ADVICE - CAUTION

The installation and assembly of electrical equipment should only be performed by authorized personnel.



The product should only be used for the intended application. Unauthorised modifications are prohibited! The product must not be used in relation with any equipment that in case of a failure may threaten, directly or indirectly, human health or life or result in danger to human beings, animals or assets. Ensure all power is disconnected before installing. Do not connect to live/operating equipment.

Please comply with

- Local laws, health & safety regulations, technical standards and regulations
- Condition of the device at the time of installation, to ensure safe installation
- This data sheet and installation manual

» NOTES ON DISPOSAL



The crossed-out wheelie bin symbol indicates that the product or removable batteries must not be disposed of with household or commercial waste. Within the EU, you are legally obliged to dispose of the product separately and appropriately in accordance with the national laws of your country. Alternatively, please contact your supplier or Thermokon Sensortechnik GmbH. Further information can be found at: www.thermokon.com

» PRODUCT TESTING AND CERTIFICATION





Declaration of conformity

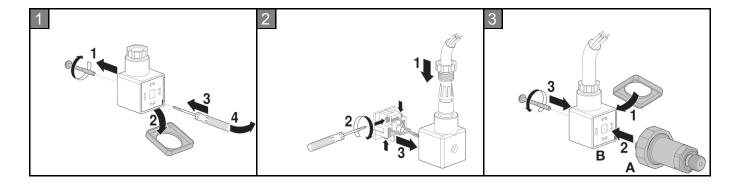
The declaration of conformity of the products can be found on our website. https://www.thermokon.de/direct/en-gb/categories/dlf02 Page 2 / 5 Issue date: 11.06.2025

»TECHNICAL DATA

Measuring values	pressure	
Medium	fluids, air or other non-flammable/non-aggressive gases	
Output voltage	$010~V,$ min. load >10 k Ω	
Output amp	420 mA, max. load 650 Ω	
Power supply	V 24 V = (±10%) or 24 V ~ (±10%) SELV)	A 24 V =
Power supply when using with UD-x Display	V 24 V = SELV	A 24 V = SELV
Power consumption	V typ. 0,15 W (24 V =) 0,3 VA (24 V ~)	A typ. 0,5 W (24 V =)
Medium temp. range	-30+80 °C	
Measuring range pressure	depending on device	
Accuracy pressure	±0,5% of measuring range (IEC 61298-2)	
Max. working overpressure	2-fold nominal pressure	
Enclosure	wetted parts stainless steel V2A (316L)	
Protection	IP65 according to IEC 60529	
Cable entry	HS compression fitting for cable max. Ø=5 mm (5 x 0,12 mm²)	
Connection electrical	HS MVS connector according to EN175301-803	M12 M12 connector according to IEC 61076-2-101
Connection mechanical	G 1/4", G 1/2"	
Ambient condition	-30+80 °C	
Notes	other measuring ranges please request, adaptor to ½" available	

» MOUNTING ADVICES

- For connection the device the device, all process lines must be depressurised.
- The device has to be secured against pressure surges by appropriate measures.
- Consider the suitability of the device for the medium to be measured
- Consider maximum pressure
- For screwing use only the spanner flat of the stainless steel body. Never turn the sensor on the plastic ring.



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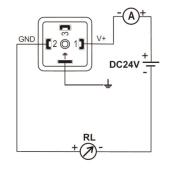
» CONNECTION PLAN

DLF02 HS

V - active 010 V		
1	24 V = / 24 V ~	
2	GND	
3	Out 010 V	

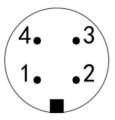


A – active	420 mA
1	24 V =
2	GND Out 420 mA
3	-



DLF02 M12

V - active 010 V	
1	24 V = / 24 V ~
2	Out 010 V
3	GND
4	-



A – active 420 mA		
1	24 V =	
2	-	
3	GND Out 420 mA	
4	-	

» COMMISSIONING

Pressure peaks are to be damped by design measures (capillary).

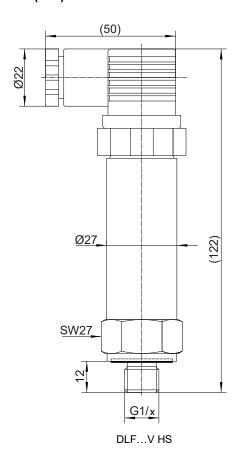
Prerequisite for commissioning is the proper installation of all electrical supply, control and sensing leads as well as the pressure connection lines.

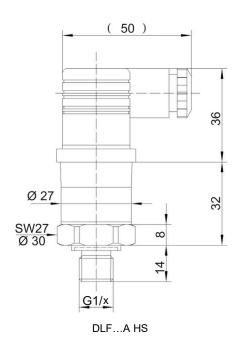
Check the tightness of the connection lines before commissioning.

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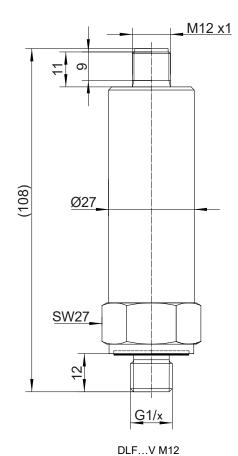
» DIMENSIONS (MM)

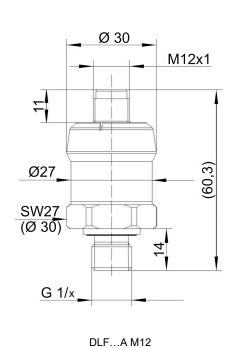
DLF02 HS





DLF02 M12





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» ACCESSORIES (OPTIONAL)

Connection cable DLF02/DPL02 M12-Plug and cable 2m
Connection cable DLF02/DPL02 M12-plug and cable 5 m
Connection cable DLF02/DPL02 M12-plug and cable 10 m
Connection cable DLF02/DPL02 HS 2m
Connection cable DLF02/DPL02 HS 5m

Connection cable DLF02/DFL02 HS 5m Connection cable DLF02/DPL02 HS 10m

Mounting bracket for DLF02/DPL02

Display UD-V (for HS 0..10V device) Display UD-A (for HS 4..20mA device) Item-No.: 840583 Item-No.: 840590

Item-No.: 840606

Item-No.: 840613

Item-No.: 840620

Item-No.: 809047

Item-No.: 841375

Item-No.: 775113 Item-No.: 718189