

Differential Pressure Switch

GFS-U - Installation Instructions

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INTRODUCTION

The differential pressure switch housing unit contains a diaphragm, a snapacting SPDT switch, and a range adjustment knob with increments. The sample connections located on the side accept 6.35mm (0.25") OD tubing. There are various optional pressure ranges, and 2 pickup tubes and 2 m (6.56') of PVC tubing available. The enclosure cover guards against accidental contact with the live switch terminal screws and the setpoint adjustment knob with indication.

BEFORE INSTALLATION

The electrical equipment may only be installed, added to, changed or maintained by authorized electricians. No voltage is to be applied when you work on electrical installations.

ELECTRICAL CONNECTIONS



MOUNTING

Important: Check the pressure switch for damages. Do not use if the switch is damaged. Do not mount the pressure switch on uneven surfaces. Do not over tighten the screws as it will deform the the device's base.

Mount the pressure switch with the pressure connections pointing downwards, to drain condensation that may occur. Mount the pressure switch horizontally with electrical connectors pointing upward **only** if no condensate can form. In this position, the switching values are approximately 20 Pa higher as indicated.

In general using two screws for mounting is sufficient, as illustrated in Figure 7. The maximum diameter of the screw head cannot exceed 8mm.

SAFETY & LIABILITY

The existing safety regulations, the intended use and the technical data must be strictly observed. According to these regulations, plants must be zero-potential and secured against inadvertently restart. The product can not be used for U.S. FDA-controlled application areas. For damage caused by improper use no liability is assumed.

SPECIFICATIONS

Medium / Max. Operating Pressure	Air / 10 kPa for all pressure ranges
Temperature Range	. Medium and ambient temperature: -20 to 60°C (-4 to 140°F)
	Storage Temperature: -40 to 85°C (-40 to 185°F)
Pressure Connectors	P1 (+): Connection to higher pressure
	P2 (-): Connection to lower pressure
Weight	.With / without cover: 160g / 115g
Working Life	.Over 10 ⁶ mechanical switching operations
Electrical Rating	Standard Version: Max. 1.0 A (0.4 A) / 250 VAC 50-60 Hz
	Low-voltage Version: Max. 0.1 A / 24 VDC
	Switching Rate: Max. 6 Cycles/min
Arrangement of Contacts	Break contact - NC
	Operating contact - NO
	Power supply line - COM
Protection Category	With cover: IP 54
Conformity	CE; ANSI; UL508; CSA C22.2#14
Country of Origin	Germany

DIMENSIONS



