

## Differential pressure- switch/gauge

### Model F5511, F5512, F5513

**Max. static pressure 25 bar**

Nominal size housing 100 mm, indication 80 mm

Accuracy: Class 2,5

#### Features

- High repeatability of the switching point
- Static pressure 25 bar, one side load permitted
- Protection IP54
- Long service life
- One or two independently adjustable contacts

#### Ranges

0 ... 400 mbar up to 0 ... 25 bar

#### Applications

Heating and ventilation

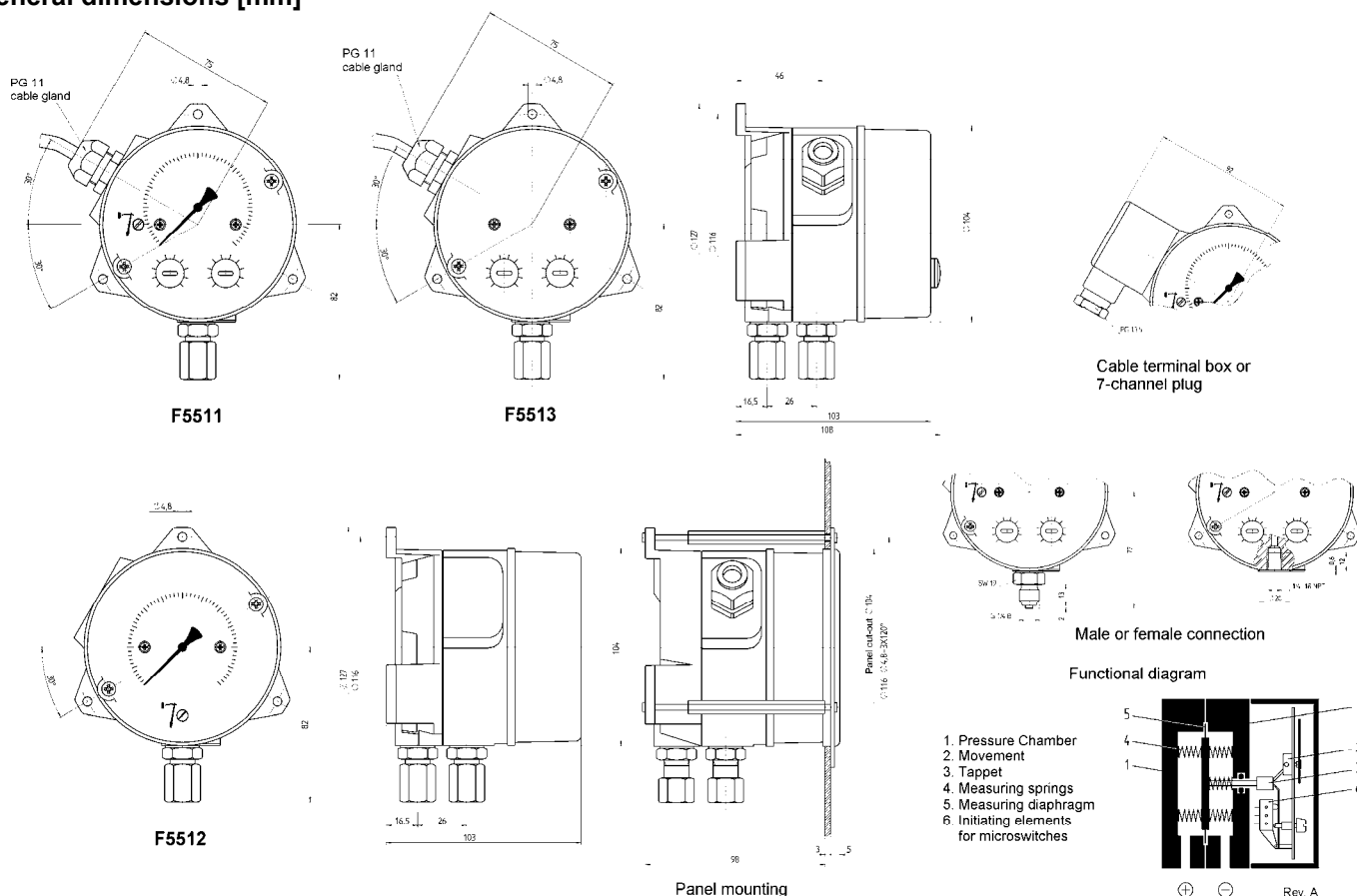
Machine and apparatus construction

Pulp and paper industry



Technical specification	F5512	F5511	F5513
Housing size [mm]	100		
Construction	Open front cylindrical case		
Indication	Yes	Yes	No
Switch functions	No	1 or 2, external adjustable	1 or 2, external adjustable
Zero adjustment	Internal, located in dial		
Measuring principle	Diaphragm (see rear side)		
Range [mbar]	400		
Range [bar]	0,6 1 1,6 2,5 4 6 10 16 25		
Max. static pressure [bar]	6 10 16 25		
Max. pressure load	One sided overpressure up to nominal range, partial vacuum protected		
Pressure type	Differential		
Process connection	G ¼ B male, G ¼ female ¼ NPT male, ¼ NPT female, others on request		
Connection location	Lower		
Material	Pressure connection: Stainless steel 303 (1.4305), Aluminum or Aluminum Hart Coat® Pressure chamber: Stainless steel 303 (1.4305), Aluminum or Aluminum Hart Coat® Measuring diaphragm/gaskets: NBR; Viton, for ranges ≥ 16 Duratherm/NBR or Duratherm/Viton other wetted parts: Stainless steel 301 (1.4310), 303 (1.4305) Window cover: Macrolon Dial: Aluminum, black markings on white background Pointer: Aluminum, black Movement: Stainless steel 304/303 (1.4301/1.4305)		
Accuracy	Class 2,5 (2,5 % F.S.)		
Electrical specification	Microswitch rating: 5 A 250 VAC (P max. 250 VA); 3 A 28 VDC Connection: Cable prewired, Angle connector acc. DIN EN 175301-803 Switch Hysteresis: Approx. 2,5 %		
Permissible	Ambient temperature: -10 ... 80 °C Medium temperature: Max. 85 °C Storage temperature: -10 ... 80 °C Effect: Max. 0,8 % / 10 K		
Protection according EN 60 529/IEC 529	IP54		
CE-Mark	Low voltage regulations EN 61010-1, EN 60947-1		
Mounting	Direct or wall, others on request		
Weight [kg]	Aluminum chamber 1,2; stainless steel chamber 3,5		
Accessories, options	3 or 4 way manifolds valves		

## General dimensions [mm]



## Order information

Type	Diaphragm, Gaskets	Pressure chamber	Process connection	Material connection	Connection orientation	Range	Eng. units	Microswitch contact	Electrical connection	Options
(F5511) Indicating with 1 or 2 micro-switches	(N) NBR ≤ 10 bar (V) Viton ≤ 10 bar	(S) 303 (1.4305) (A) Aluminium	(27) G ¼ female (02) ¼ NPT male	(A) Brass (B) Steel (S) 303 (1.4305)	(L) Lower	0/ 400 <sup>1)</sup> 0/ 0,6 <sup>2)</sup> 0/ 1 <sup>3)</sup> 0/ 1,6 0/ 2,5 0/ 4 0/ 6 0/ 10 0/ 16 0/ 25	(M BAR)  (BAR)	(=) Non (F5512)  (1K) One SPDT (not F5512)  (2K) Two SPDT independently adjustable (not F5512)	(=) Non (F5512)  (F2) Cable connection (cable lengths to be specified in [m])  (M1) Angle connector according DIN EN 175301-803	(NH) Tagging wired  (DA) Dial marking  (FX) Panel mounting device 132 mm  (V13) 3 way manifold (materials per pressure chambers)  (V14) 4 way manifold including vent (materials per pressure chambers)
(F5512) Indicating	(DN) NBR gasket, Duratherm diaphragm	(AH) Aluminium Hart Coat®	(13) G ¼ B male							
(F5513) Non indicating with 1 or 2 micro-switches	(DV) Viton gasket, Duratherm diaphragm ≥ 16 bar		(25) ¼ NPT female							
			Compressi on type fittings for mm OD tubing							
			(6) 6 mm (8) 8 mm (10) 10 mm			max. static pressure 1) 6 bar 2) 10 Bar 3) 16 bar	psi and others on request			

## How to order

Size	Type	Diaphragm Gaskets	Pressure chamber	Process connection	Material connection	Connection orientation	Range	Engineering units	Microswitch contacts	Electrical connection	Options
100	F5511	DN	S	27	S	L	0/16	BAR	2K	M1	NH

## Ashcroft Instruments GmbH

Germany  
Max-Planck-Str. 1, D-52499 Baesweiler  
P.O. Box 11 20, D-52490 Baesweiler  
Tel.: +49 (0) 2401 808-0, Fax: +49 (0) 2401 808-125

France  
„206“ ZA Le Mandinet Rue des Campanules  
F-77185 Lognes  
Tel.: +33 (0) 1 60 37 25 30, Fax: +33 (0) 1 60 37 25 39

Website: [www.ashcrofteurope.com](http://www.ashcrofteurope.com) e-Mail: [sales@ashcrofteurope.com](mailto:sales@ashcrofteurope.com)

United Kingdom  
Unit 5 William James House  
Cowley Road, Cambridge CB4 0WX  
Tel.: +44 (0) 12 23 39 55 00, Fax: +44 (0) 12 23 39 55 01