

**The RCA222 Differential Pressure ( $\Delta P$ ) Transducer is the latest monitoring device for use with Pall filter assemblies. It provides continuous, reliable, real time data of filter service condition to give users increased control of their fluid system maintenance procedures.**

The **RCA222  $\Delta P$  transducer** senses the differential pressure across an in-service filter element and transmits the reading as a 4-20mA analogue signal, interpreted as a value of remaining filter life.

In addition it has two independent switched outputs set to 75% and 100% of filter service life to give an initial warning (75%) that the filter element will shortly need replacing, and a final warning (100%) that a replacement filter element is needed. This helps accommodate filter changes into planned maintenance schedules.

The 'plug and play' transducer is designed to fit all standard Pall threaded indicator ports, regardless of filter age, for applications rated up to 450 bar.

- Provides a more automated, continuous method for monitoring filter service life
- Sudden changes in filter condition can help detect potentially damaging operating conditions, enabling the operator to take corrective action before failure occurs
- No manual on-site checking of filter status required
- Transducer thermal lockout (<20 °C) ignores signals received before normal operating temperature is reached, ensuring readings are relevant
- Available in a range of standard differential pressures to suit the Pall filter housing bypass setting the transducer is intended to be used with

## New: RCA222 Series Differential Pressure Transducer Remaining Filter Service Life Indicator



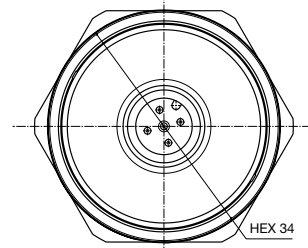
RCA 222 Differential Pressure Transducer

### Technical Information:

Maximum operating pressure:	450 bar
Pressure fatigue rating:	0-400-0 bar >1 x 10 <sup>6</sup>
Proof pressure:	675 bar
Burst pressure (typical):	1100 bar
Number of cycles (Mechanical):	1 x 10 <sup>5</sup>
Operating Temperature:	-25°C(-13°F) to 85°C(185°F)
Minimum Ambient Temperature:	-40°C(-40°F)
IP rating:	IP65 with mating connector to M12-5 to IEC 61076-2-1001 socket plug assembly.
Connector:	PA6, 6-M12-5 PIN to IEC 61076-2-101.

## Materials of construction:

Body, piston, spring retainer: Brass  
 Spring: Stainless Steel  
 Seals: Fluorocarbon  
 Indicator tightening torque: 50-60Nm.



## Electrical switch ratings:

24 VDC PNP Maximum load 0.4A normally open, analogue output 4-20mA.

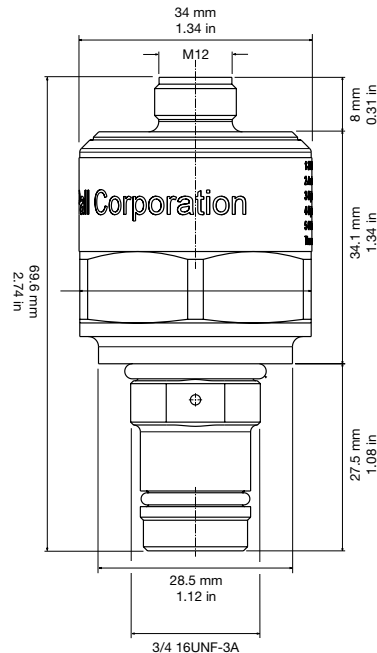
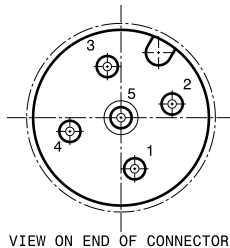
Automatic switch reset when differential pressure is reduced.

Thermal lockout  $T^{\circ} = 20^{\circ}\text{C}$  (68°F) Note if  $T < T^{\circ}$  Digital output 1 remains normally open, digital output 2 remains normally open and analogue output remains at 4mA.

Analogue output remains at 4mA until a minimum of 25% of differential pressure range has been exceeded (dead band).

## Transducer connection:

- Pin 1:** 24 VDC  $\pm$  10%
- Pin 2:** Analogue Output 4-20mA
- Pin 3:** Digital Output 1 75% (PNP)
- Pin 4:** Digital Output 2 100% (PNP)
- Pin 5:** 0 VDC, Ground



## Ordering information

Part Number	Analogue Output	100% switch point	75% switch point
RCA222ZK2011	0.5 - 2.0 bard 8 - 29 psid	1.1 bard 16 psid	0.8 bard 12 psid
RCA222ZK4024	1.0 - 4.0 bard 15 - 58 psid	2.4 bard 35 psid	1.8 bard 26 psid
RCA222ZK4034	1.0 - 4.0 bard 15 - 58 psid	3.4 bard 50 psid	2.4 bard 35 psid
RCA222ZK8069	2.0 - 8.0 bard 29 - 116 psid	6.9 bard 100 psid	4.8 bard 70 psid



**Pall Corporation**

Pall Machinery and Equipment

25 Harbor Park Drive  
 Port Washington, NY 11050  
 +1 516 484 3600 telephone  
 +1 800 289 7255 toll free US


Portsmouth - UK  
 +44 (0)23 9233 8000 telephone  
 +44 (0)23 9233 8811 fax  
 industrialeu@pall.com



Visit us on the Web at [www.pall.com](http://www.pall.com)

Pall Corporation has offices and plants throughout the world. For Pall representatives in your area, please go to [www.pall.com/contact](http://www.pall.com/contact)

Because of technological developments related to the products, systems, and/or services described herein, the data and procedures are subject to change without notice. Please consult your Pall representative or visit [www.pall.com](http://www.pall.com) to verify that this information remains valid.

© Copyright 2015, Pall Corporation. Pall and  are trademarks of Pall Corporation.  
 ® Indicates a trademark registered in the USA. Better Lives. Better Planet and Filtration. Separation. Solution.*sm* are service marks of Pall Corporation.