7MF8023-1CA04-1AA1

Industrial automation components

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Manufacturer	Siemens
Catalog number	7mf8023-1ca04-1aa1
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Siemens
Part Number	7MF8023-1CA04-1AA1
Product Type	Digital Pressure Transmitter
Measuring Range	0.04 to 4 bar
Output Signal	4 to 20 mA
Communication Protocol	HART
Measuring Cell Filling	Silicone Oil
Diaphragm Material	Stainless Steel
Process Connection	G1/2 B Thread
Non-Wetted Parts Material	Stainless Steel, Deep-Drawn and Electrolytically Polished

Description

The Siemens SITRANS P300 (Part Number: 7MF8023-1CA04-1AA1) is a digital pressure transmitter designed for precise measurement of relative and absolute pressures in industrial applications. It features a single-chamber stainless steel enclosure, ensuring durability and reliability under various operating conditions.

The transmitter operates with a 4 to 20 mA output signal and is equipped with HART communication protocol, facilitating seamless integration into existing control systems. The measuring cell is filled with silicone oil, providing stability and accuracy in pressure readings.

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The diaphragm and measuring cell are constructed from stainless steel, offering resistance to corrosion and mechanical stress. The process connection is a G1/2 B thread, compliant with EN 837-1 standards, ensuring compatibility with a wide range of process systems.

Non-wetted parts are made from deep-drawn and electrolytically polished stainless steel, enhancing the transmitter's longevity and performance. This model does not include explosion protection features, making it suitable for non-hazardous environments.

The electrical connection is a plastic M20x1.5 screwed gland, simplifying installation and maintenance. The SITRANS P300 series is renowned for its high reliability, even under extreme chemical and mechanical loads, and offers extensive diagnostic and simulation functions, ensuring minimal conformity error and small long-term drift.

This transmitter is ideal for applications in industries such as food, pharmaceuticals, and biotechnology, where precise and reliable pressure measurement is critical.