



Datasheet for

SITRANS P DS III / P410, HART, 4-20 mA transmitter for pressure

Ordering data: **7MF40331DA101AC6**

C14

General

Manufacturer	Siemens
Supplier	Siemens
Product designation	gauge pressure transmitter
Brand name	SITRANS P DS III
Type designation	Transmisor para presión relativa o nivel en tanque abierto, Smart, modelo SITRANS P, serie DS III/P410, con manejo local mediante teclado y LCD incluidos de forma estándar y a distancia mediante protocolo HART. Alimentación: 10,5 a 45 V.c.c. (10,5 a 30 V.c.c en la ejecución EEx ia). Conexión: A 2 hilos. Señal de salida: 4 a 20 mA. Precisión de medida: Mejor de 0,1 % incluidas la histéresis y la repetibilidad (precisión mejor de 0,07 % bajo demanda). Funciones especiales: Incluidas (autodiagnóstico, señal
Net weight	1,889 kg

Mode of operation and application

Measuring principle	piezo-resistive
---------------------	-----------------

Input

Measuring span	160 mbar...16 bar
----------------	-------------------

Output

Current output

Signal range	4 ... 20 mA
Failure signal (maximum)	23 mA

Rated conditions

Process temperature	-40 °C...+100 °C
---------------------	------------------

Environmental conditions

Ambient temperature during operation	-40 °C...+85 °C
--------------------------------------	-----------------

Degree of protection

IP rating	IP65
NEMA rating	NEMA 4X

Electromagnetic compatibility EMC

Standard for EMC	The appropriate directives and standards applied, including the relevant versions, can be found in the EC Declaration of Conformity
------------------	---

Design

Mechanical design

Model of the measuring transducer	compact version, sensor integrated
-----------------------------------	------------------------------------

Process connection

Design	female thread
Nominal size	1/2"-14 NPT
Pressure rating	PN 21

Material

Process connection

Material	stainless steel
----------	-----------------

Datasheet for

SITRANS P DS III / P410, HART, 4-20 mA transmitter for pressure

Ordering data: **7MF40331DA101AC6**

C14

Housing

Material	aluminum
Material number according to DIN EN 10027-2	3.2582

Separation & Measuring Membrane

Material of the separation membrane	stainless steel
-------------------------------------	-----------------

Miscellaneous

Filling liquid in the measuring cell	silicone oil
--------------------------------------	--------------

Electrical connections

Connection technology	2-wire connection
Design of the cable entry	1/2"-14 NPT
Design of the electrical connection point	screw-type terminals

Power supply

Electrical

Voltage type	DC
--------------	----

Communication

Protocol	HART
Protocol version	Version 5

Certificates and approvals

EC declaration of conformity	The appropriate directives and standards applied, including the relevant versions, can be found in the EC Declaration of Conformity on the Siemens Internet pages.
Pressure device category according to PED 97/23/EC	Article 3.3
Fluid group according to PED 97/23/EG	gas group 1, liquid group 1

The information provided in this data sheet contains descriptions or characteristics of performance which in case of actual use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract. Availability and technical specifications are subject to change without notice.