

Technical data

Case design

st. steel, design see below

Temperature ranges

ambient temperature: -10...+70 °C
 storage temperature: -10...+90 °C¹
 process temperature: depending on design (range, model and system filling)

¹ minus value depends on system filling

Measuring accuracy

linearity error incl. hysteresis: ≤+ 0.2 % f.s.
 (≤+ 0.3 % f.s. for measuring ranges ≥ 0...60 bar)
 fixed-point adjustment
 accuracy of adjustment: ≤± 0.2 % f.s.
 temperature effect as per data sheet

Auxiliary energy supply

· nominal voltage 24 V DC
 · function range 6...30 V DC
 · max. allowable operating voltage 30 V DC

Signal output

4...20 mA, 2-wire circuitry or
 0...20 mA, 3-wire circuitry

Current limitation in output signal

max. output current approx. 30 mA

Adjusting range

approx. ± 5 % f.s.
 zero point and measuring span separately adjustable

Burden

2-wire circuitry
 standard design $R_a = \frac{U_b - 6 \text{ V}}{20 \text{ mA}}$ (KOhm)
 U_b = operating voltage
 R_a = max. permissible burden resistance (incl. lead)

Burden influence

for 500 ohm burden change: ≤ 0.1 % f.s.

System filling

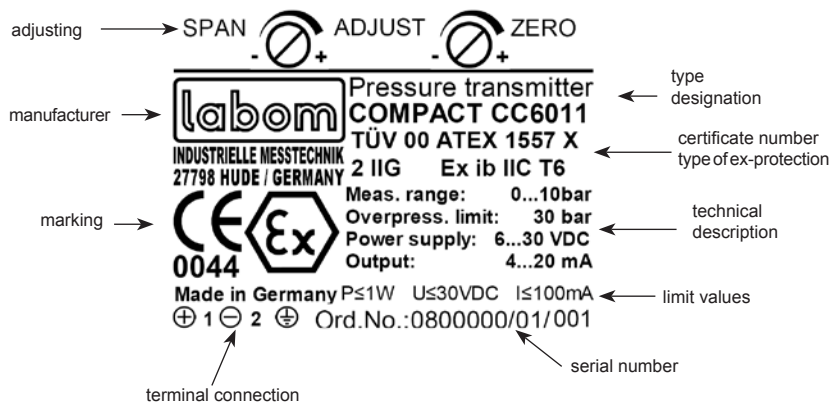
foodstuff oil FD1/FD2 (USDAH1 per FDA)
 vegetable oil FP
 medical white oil FW (USDA-H1 per FDA)
 silicon oil

Installation position

any, standard: adjusted at factory for vertical mounting

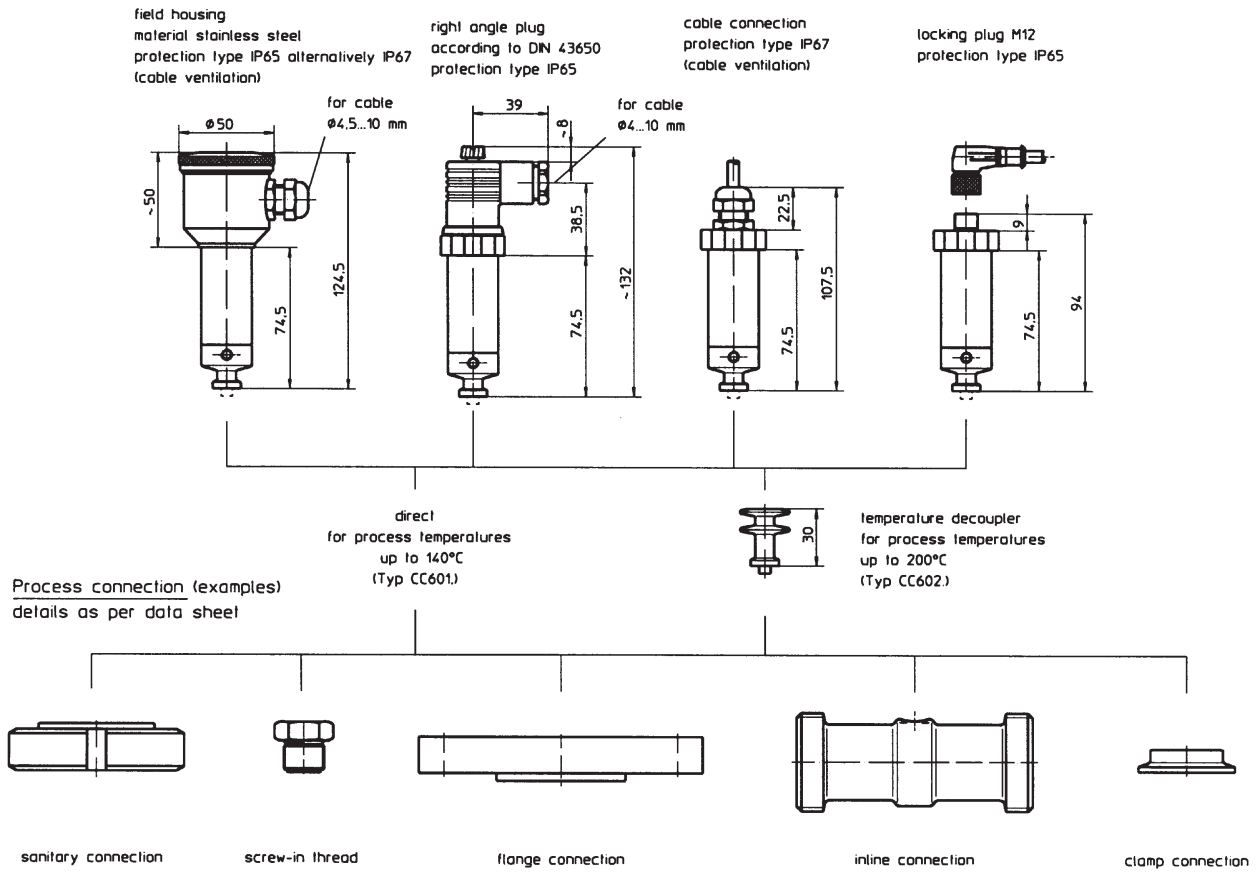
Further details see data sheet

Type plate

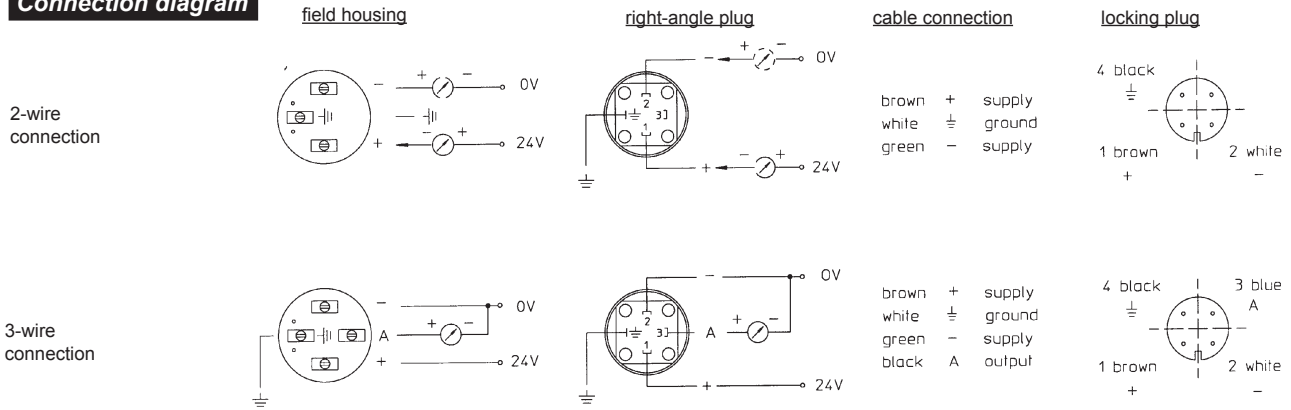


Dimensions/Designs

Diagram: versions in common use



Connection diagram





Translation

EC TYPE-EXAMINATION CERTIFICATE

- (1) **EC TYPE-EXAMINATION CERTIFICATE**
- (2) Equipment or protective system intended for use in potentially explosive atmospheres - **Directive 94/9/EC**
- (3) EC-Type Examination Certificate Number



TÜV 00 ATEX 1557 X

- (4) Equipment: Pressure transmitter COMPACT type C..011 S06.
- (5) Manufacturer: LABOM Meß- und Regeltechnik GmbH
- (6) Address: Im Gewerbepark 13
D-27795 Hude

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The TÜV NORD CERT GmbH & Co. KG, TÜV CERT-Certification Body, notified body number N° 0032 in accordance with Article 9 of the Council Directive of the EC of March 23, 1994 (94/9/EC), certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.

(9) The examination and test results are recorded in the confidential report N° 00PX03690. Compliance with the Essential Health and Safety Requirements has been assured by

EN 50014:1997 **EN 50020:1994**

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC-type examination certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

(12) The marking of the equipment or protective system must include the following:



TÜV NORD CERT GmbH & Co. KG
TÜV CERT-Certification Body
Am TÜV 1
D-30519 Hannover
Tel.: 0511 986-7470
Fax: 0511 986-7555



TÜV NORD CERT
Head of the
Certification Body

Hanover, 2003-09-04

TÜV NORD CERT GmbH & Co. KG
legal successor or the notified body of
TÜV Hannover/Sachsen-Anhalt e.V.
German original certificate
issued on 2000-04-04

SCHEDULE



EC-TYPE EXAMINATION CERTIFICATE N° TÜV 00 ATEX 1557 X

- (13) Description of equipment
- (14) The pressure transmitter COMPACT type C..011 S06. is used for the detection of pressures in explosion hazardous areas, where apparatus of category 2 are required.
The ambient temperature range is -40°C ... +70°C.
- (15) The temperature class of the pressure transmitter in dependence of the type designation has to be taken from the following table:

Type designation	Temperature class
C..011 S061	T4
C..011 S063	T5
C..011 S065	T6

Electrical Data

Signal circuit in type of protection Intrinsic Safety EEx Ib IIC only for connection to a certified intrinsically safe circuit with the following maximum values:

U_i = 30 V
I_i = 150 mA
P_i = 1 W

effective internal inductivity: 33 µH
effective internal capacity: 49 nF

(16) The test documents are listed in the test report no. 00PX03690.

(17) Special conditions for safe use

- 1. Since the intrinsically safe signal circuit is connected with earth potential for safety reasons, potential equalisation has to exist in the complete course of the erection of the intrinsically safe circuit.
- 2. At a cable length above 50m the intrinsically safe circuit has to be safe galvanically separated from all non intrinsically safe circuits.

(18) Essential Health and Safety Requirements

no additional ones