* Customer:_____ Tag. No.: _____
* Plant: _____ Item No.: _____
* Ordering code:_____ Person responsible: _____
* Ordering department: _____ Phone: _____
*** Transmitter Order No.: 7MF 4 ☐☐☐ –1 ☐☐☐☐ –1 ☐☐☐**

Order No. of transmitter known?

Yes

*** Order No. of remote seal:**
7MF 4 9 ☐☐ – ☐☐☐☐☐ – ☐☐ –Z
Suffixes _____
Suffixes _____

No

*** Or without Order No.: Process connection**
* Standard: _____
* Nominal diameter: _____
* Nominal pressure: _____
* Constructional design:
☐ Sandwich-type rem. seal
☐ Flanged remote seal
☐ Quick-release remote seal
☐ Clamp-on seal
☐ Other.: _____
* Connection:
☐ Direct connection
☐ Capillary on one side; connection to: ☐ + side ☐ – side
☐ Capillaries on both sides;
☐ Capillary length: ___ m
* Vacuum-proof design ☐ Yes ☐ No
* Wetted parts materials: _____
* Tube: ☐ No ☐ Yes, ___mm long
* Filling liquid _____
* Miscellaneous _____

Calculation of measuring range necessary?

No

*** Range to be set:**
(without calculation)
Start-of-scale:_____ mbar (4 mA)
Full-scale: _____ mbar (20 mA)
*** Required measuring accuracy:**
Error: < . % of set span per 10 V change in temperature

Please fill in this questionnaire and enclose with every order!

Yes

Medium _____
Density of medium: _____ kg/m^3
*** Temperature of medium:** Normal _____ °C; Minimum _____ °C; Maximum _____ °C
*** Ambient temperature on capillaries:** Normal _____ °C; Minimum _____ °C; Maximum _____ °C
*** Ambient temperature on transmitter:** Normal _____ °C; Minimum _____ °C; Maximum _____ °C
*** Operating pressure referred to absolute zero:** ____ bar a
* Does a **vacuum** occur **during startup**? ☐ No ☐ Yes
If yes, associated temperature of medium: _____ °C
*** Installation type**, see pages 2/166 and 2/167 ☐ A ☐ B ☐ C_1 ☐ C_2 ☐ D ☐ E ☐ G ☐ H ☐ J
*** Measuring range:** With install. types A, B, C_1, C_2 and D: from ___ to ___ mbar
With install. types A, B, G, H and J: H_U = ___ mm; H_O = ___ mm
*** Dimensions:** With install. types A, B, C_1 and C_2: H_1 = ___ mm
With install. types D, G, H and J: H_V = ___ mm
*** Start-of-scale value following calculation:**_____ mbar (4 mA)
Full-scale value following calculation:_____ mbar (20 mA)
Associated span: _____ mbar
Error to be expected: < , % of set span per 10 K change in temperature

Checked: Name:
Department:
Date:

***) Values must be entered here!**

Questionnaire
for hydrostatic level measurements

Order date: _____

Processing date: _____

Ordering code (customer): _____

Ordering code (supplier): _____

Customer reference: _____

Measuring point: _____

Position: _____

Dimensions: _____

Pressure: ☐ bar

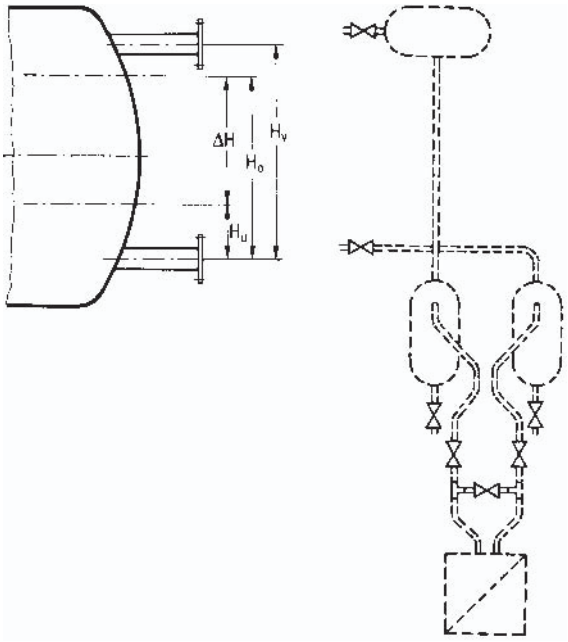
Temperature: ☐ K ☐ °C

Measuring range: ☐ cm ☐ m
(please mark with cross)

Order No. of transmitter [1]:

7 M F 4 _____ – _____ – _____ –Z

Y01



The different pressures and temperatures (densities) in the vessel and in the reference column result in an offset in the start-of-scale and full-scale values.
The calibration data are determined in addition.
It is also checked whether – as a result of the range offset – the ordered transmitter is suitable for this measurement.

Please supply the following characteristic data so that we can calculate the measuring range, start-of-scale value, full-scale value and calibration data:

Please mark type of boiler with a cross: Closed [1] ☐
Open or not under pressure [2] ☐

Medium _____

Licensed boiler pressure (absolute)		_____	bar
Operating pressure (absolute)	Lowest	_____	bar
	Normal [3]	_____	bar
	Highest	_____	bar
Temperature of reference column (cold)		_____	K
Distance between measuring points (dimension according to sketch)	H_V =	_____	m
Measuring range [4] = start-of-scale value to full-scale value			
	Start-of-scale value	H_U = _____	m
	Full-scale value	H_O = _____	m
Position of equalizing vessel above bottom measuring point if different from H_V		_____	m

Please mark pressure correction of level with a cross: No ☐
Yes [4] ☐

[1] Reference line filled with condensation! Falling differential pressure with increasing level.
[2] Reference line without gas or filled with gas (air). Rising differential pressure with increasing level.
[3] If not specified otherwise, this value is assumed as the calculation pressure of the level meter.
The input signal (differential pressure) depends on the density (pressure and temperature).
The influence is practically negligible for a lowest liquid level of 20 to 30% of the distance between the measuring points.
[4] If a pressure correction of the level is required, the **measuring range must be the same as the distance between the measuring points**, and the transmitter is designed for the calculation pressure of 1 bar (absolute).
Pressure correction means: the static pressure and the temperature are measured separately and calculated by a correction computer or measured-value computer.

* Customer:_____ Tag. No.: _____
* Plant: _____ Item No.: _____
* Ordering code:_____ Person responsible: _____
* Ordering department: _____ Phone: _____
* **Transmitter Order No.: 7MF 4 ☐☐☐ –1 ☐☐☐☐ –1 ☐☐☐**

Order No. of transmitter known?

Yes

*** Order No. of remote seal:**
7MF 4 9 ☐☐ – ☐☐☐☐☐ – ☐☐ –Z
Suffixes _____
Suffixes _____

No

*** Or without Order No.: Process connection**
* Standard: _____
* Nominal diameter: _____
* Nominal pressure: _____
* Constructional design:
  - ☐ Sandwich-type rem. seal
  - ☐ Flanged remote seal
  - ☐ Quick-release remote seal
  - ☐ Clamp-on seal
  - ☐ Other.: _____
* Connection:
  - ☐ Direct connection
  - ☐ Capillary on one side; connection to: ☐ + side ☐ – side
  - ☐ Capillaries on both sides;
  - ☐ Capillary length: ___ ft
* Vacuum-proof design ☐ Yes ☐ No
* Wetted parts materials: _____
* Tube: ☐ No ☐ Yes, __inch long
* Filling liquid _____
* Miscellaneous _____

Calculation of measuring range necessary?

No

*** Range to be set:**
(without calculation)
Start-of-scale:_____ psi (4 mA)
Full-scale: _____ psi (20 mA)
*** Required measuring accuracy:**
Error: < . % of set span per 18 °F change in temperature

Please fill in this questionnaire and enclose with every order!

Yes

Medium _____
Density of medium: _____ kg/m^3
*** Temperature of medium:**
Normal _____ °F
Minimum _____ °F
Maximum _____ °F
*** Ambient temperature on capillaries:**
Normal _____ °F
Minimum _____ °F
Maximum _____ °F
*** Ambient temperature on transmitter:**
Normal _____ °F
Minimum _____ °F
Maximum _____ °F
*** Operating pressure referred to absolute zero:** ____ psi_{abs}
* Does a **vacuum** occur **during startup**? ☐ No ☐ Yes
If yes, associated temperature of medium: _____ °F
*** Installation type**, see pages 2/166 and 2/167 ☐A ☐B ☐C_1 ☐C_2 ☐D ☐E ☐G ☐H ☐J
*** Measuring range:** With install. types A, B, C_1, C_2 and D: from ___ to ___ psi
With install. types A, B, G, H and J: H_U = ___ inch; H_O = ___ inch
*** Dimensions:** With install. types A, B, C_1 and C_2: H_1 = ___ inch
With install. types D, G, H and J: H_V = ___ inch
*** Start-of-scale value following calculation:** _____ psi (4 mA)
Full-scale value following calculation: _____ psi (20 mA)
Associated span: _____ psi
Error to be expected: < , % of set span per 18 °F change in temperature

Checked: Name:
Department:
Date:

***) Values must be entered here!**