

# Input and output signal parametrisation, special parameter

## Appendix 7

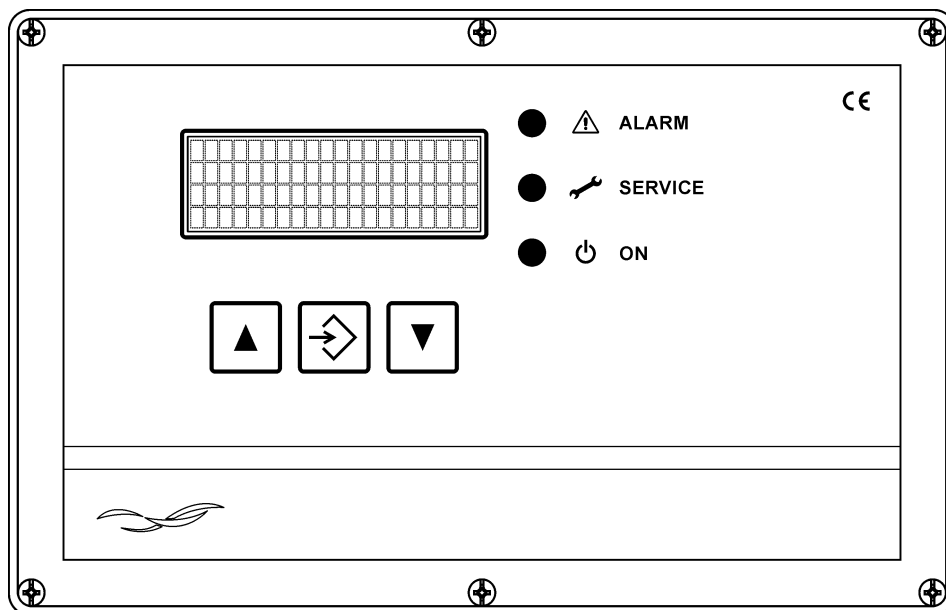
to

**Operating and installation instructions**

**R-IMC-BUS  
Filter control system**

# **RM-310 C / RM-310 CT**

---



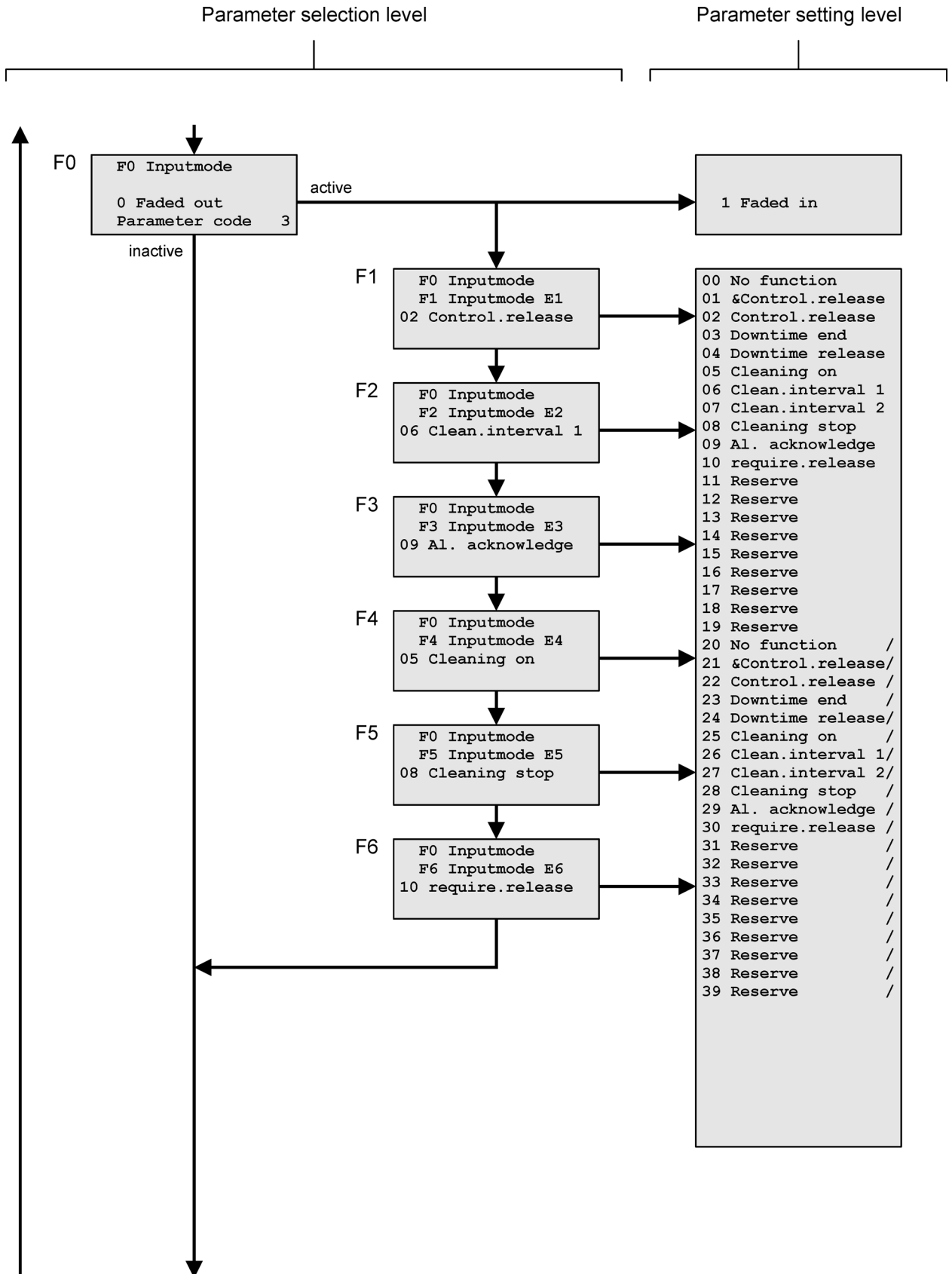
## Contents

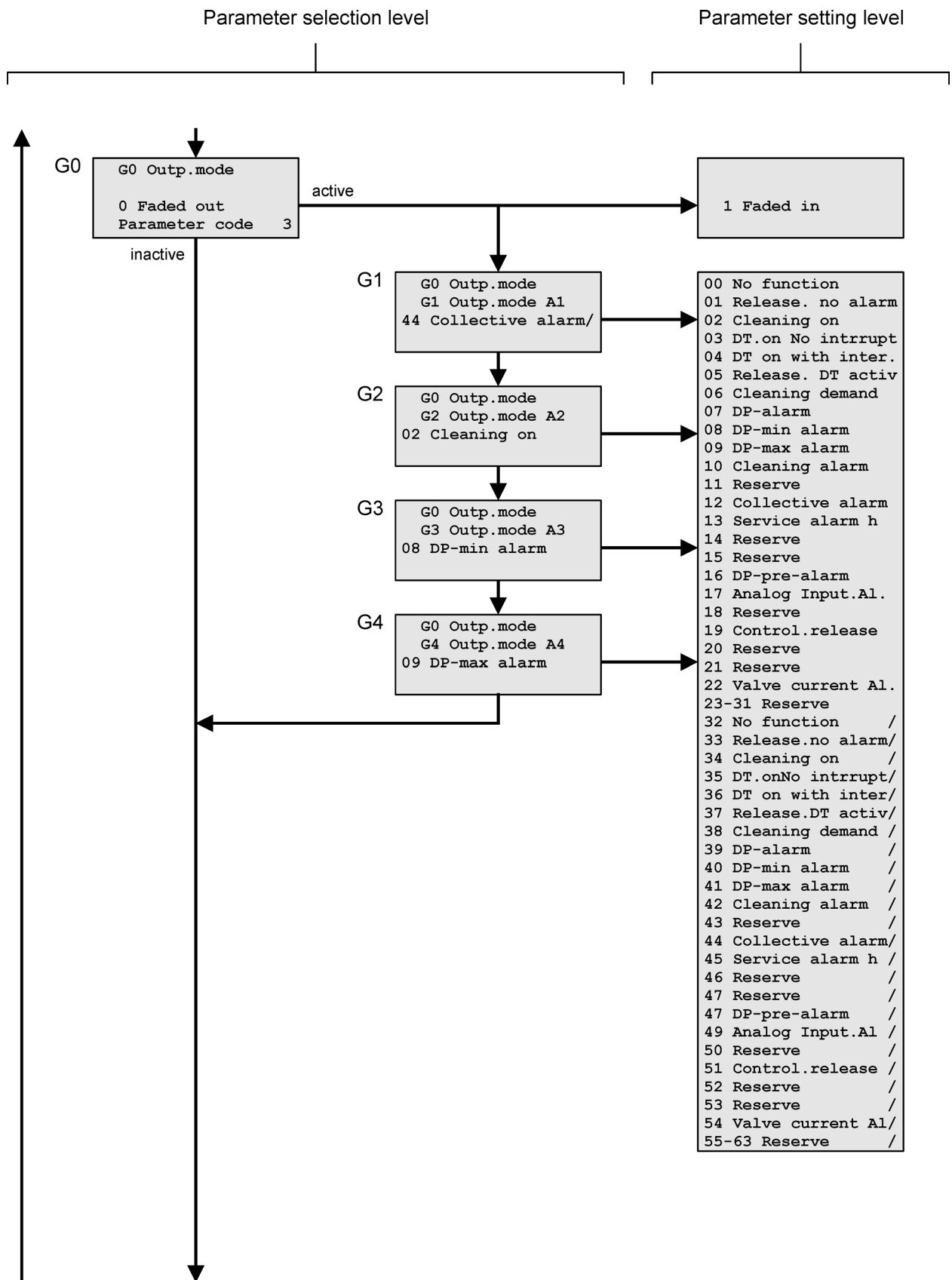
1 Overview of menu navigation .....	3
2 Parameter list .....	6
3 Parameter description and explanation of function .....	7

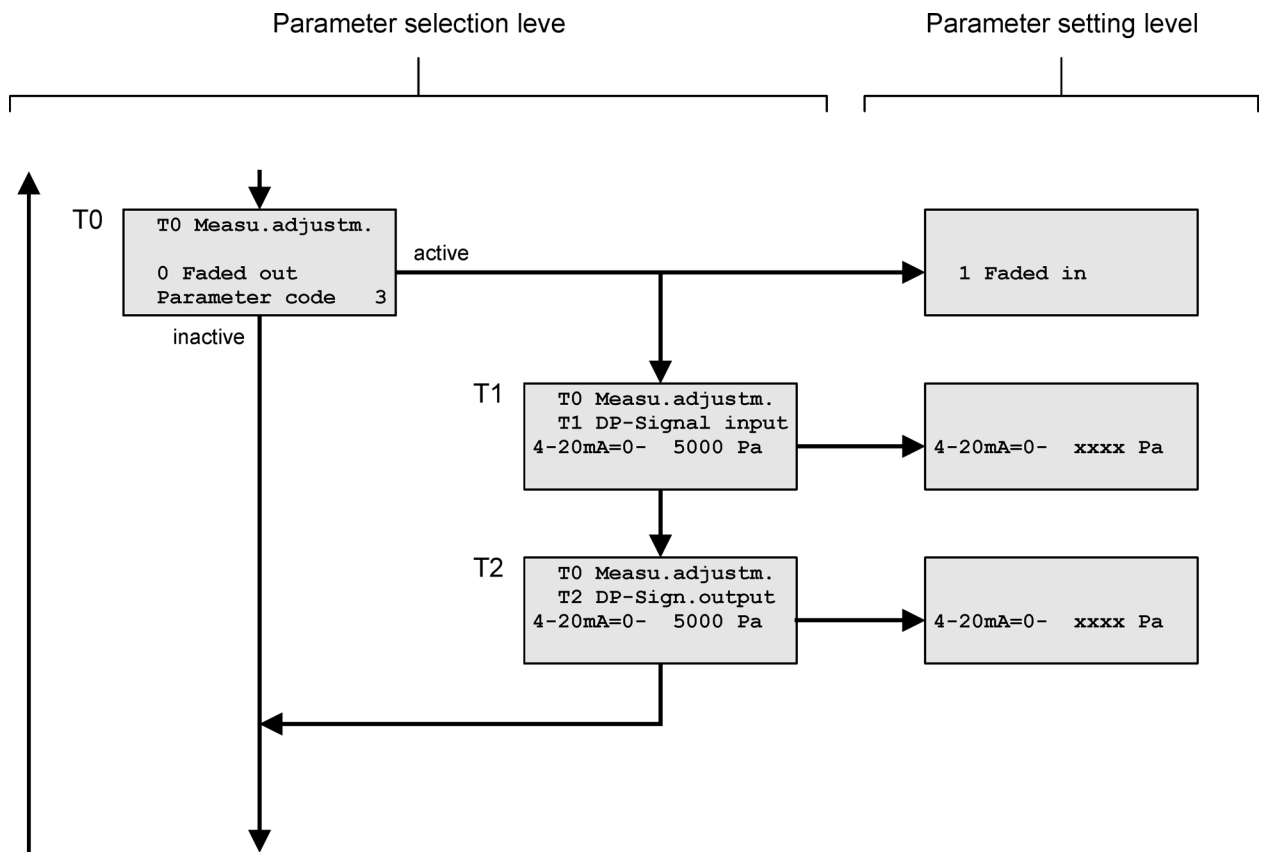
## Symbol explanation

**i** Important note


# 1 Overview of menu navigation








## 2 Parameter list

Parameter	Code 	Text in display, line 1	Meaning	Factory setting	Setting range
<b>Parameter group F0-F6 "Input mode"</b>					
F0	3	F0 Inputmode	Digital input functions	0	0 ... 1
F1	–	F1 Inputmode E1	Input E1	2	0 ... 39
F2	–	F2 Inputmode E2	Input E2	6	0 ... 39
F3	–	F3 Inputmode E3	Input E3	9	0 ... 39
F4	–	F4 Inputmode E4	Input E4	5	0 ... 39
F5	–	F5 Inputmode E5	Input E5	8	0 ... 39
F6	–	F6 Inputmode E6	Input E6	10	0 ... 39
<b>Parameter group G0-G4 "Outp.mode"</b>					
G0	3	G0 Outp.mode	Relay output functions	0	0 ... 1
G1	–	G1 Outp.mode A1	Output A1	44	0 ... 63
G2	–	G2 Outp.mode A2	Output A2	2	0 ... 63
G3	–	G3 Outp.mode A3	Output A3	8	0 ... 63
G4	–	G4 Outp.mode A4	Output A4	9	0 ... 63
<b>Parameter group T0-T2 "Measurement range adjustment"</b>					
T0	3	T0 Measu.adjustm.	Measuring range functions	0	0 ... 1
T1	–	T1 DP-Signal input	Differential pressure, signal input (only RM-310 C)	5000 Pa	500 Pa ... 35000 Pa
T2	–	T2 DP-Sign.output	Differential pressure, signal out- put (only RM-310 CT)	5000 Pa	500 Pa ... 35000 Pa



 Parameter code 3 = 4711

### 3 Parameter description and explanation of function

#### Parameter group F0-F6 "Input mode"

Parameters F1-F6 can be faded in or out with parameter F0.

F0 =	Text in display, line 3	Meaning
0	0 Faded out	Parameters F1-F6 are faded out and are skipped
1	1 Faded in	Parameters F1-F6 are faded in and are displayed

The function of inputs E1 to E6 can be set via parameters F1-F6.

Fn =	Text in display, line 3	Meaning
0/20	n No Function	No function
1/21	n &Ctrl.Release.	AND operation for control release
2/22	n Ctrl.Release	The control is released and switches from stand-by to normal operation.
3/23	n Downtime end	Stop downtime immediately and clear
4/24	n Downtime release	Downtime only when released otherwise interrupt downtime
5/25	n Cleaning on	Continuous cleaning on by external <b>Even if no cleaning release was granted.</b>
6/26	n Clean.interval 1	If cleaning is on, cleaning is done only with interval 1
7/27	n Clean.interval 2	If cleaning is on, cleaning is done only with interval 2 Priority before Fn = 6
8/28	n Cleaning stop	Cleaning final stop Priority before Fn = 6, 7
9/29	n Al. acknowledge	Alarm acknowledgement
10/30	n require.release	Confirmation of release requirement Cleaning on when cleaning was requested by RM-310. (see parameter Gn = 6/38)
11-19 and 31-39	n Reserve	Reserve parameter (without function)

- i** If the parameter value is smaller than 20, the input function responds to a 1-signal.  
If the parameter value is greater than 19, the input function negates and responds to a 0-signal. This is marked in the text display by "/".

## Parameter group G0-G4 "Outp.mode"

Parameters G1-G4 can be faded in or out with parameter G0.

G0 =	Text in display, line 3	Meaning
0	0 Faded out	Parameters G1-G4 are faded out and skipped.
1	1 Faded in	Parameters G1-G4 are faded in and are displayed

The function of the relay outputs A1 to A4 can be set via parameters G1-G4.

Gn =	Text in display, line 3	Meaning
0/32	n No function	No function
1/33	n Release.no alarm	Control released and no alarm
2/34	n Cleaning on	Cleaning enabled
3/35	n DT.on No intrrupt	Downtime active and not interrupted via input function
4/36	n DT with inter.	Downtime active, even if downtime interrupt
5/37	n Release. DT activ	Control release occurred or downtime active
6/38	n Cleaning demand	$DP > DP\text{-}Start = 1$ $DP < (DP\text{-}Start - DP\text{-}Hysteresis) = 0$
7/39	n DP-Alarm	Differential pressure Min. or Pre-Alarm or Max. Alarm
8/40	n DP-Alarm min	Differential pressure Min. Alarm
9/41	n DP-Alarm max	Differential pressure Max. Alarm
10/42	n Cleaning alarm	Cleaning Alarm
11/43	n Reserve	Reserve parameter (without function)
12/44	n Collective alarm	Group alarm
13/45	n Service Alarm h	The service operating hours have expired
14/46	n Reserve	Reserve parameter (without function)
15/47	n Reserve	Reserve parameter (without function)
16/48	n DP Pre-alarm	DP pre-alarm switching point reached
17/49	n Analog Input.Al.	Alarm output "Sensor Alarm" and 4-20 mA analogue inputs
18/50	n Clean.Press.valve	Cleaning pressure controller pressure control output potential-free
19/51	n Control.release	Control released
20/52	n Reserve	Reserve parameter (without function)
21/53	n Reserve	Reserve parameter (without function)
22/54	n Valve current al.	Valve current alarm
23-31 and 55-63	n Reserve	Reserve parameter (without function)

- i** If the parameter value is smaller than 32 output signal 1 is active.
- i** If the parameter value is smaller than 32 output signal 0 is active. This is marked in the text display by "/".



**Parameter group T0-T2 "Measurement range adjustment"**

<b>T0 =</b>	<b>Text in display, line 3</b>	<b>Meaning</b>
0	0 Faded out	Parameters T1-T2 are faded out and are skipped.
1	1 Faded in	Parameters T1-T2 are faded in and are displayed.

<b>T1 =</b>	<b>Text in display, line 3</b>	<b>Meaning</b>
0-500 Pa to 0-35000 Pa	4-20mA = 0-#### Pa	The measurement range of the signal input (terminals 15, 16) is 0-#### Pa  only RM-310 C

<b>T2 =</b>	<b>Text in display, line 3</b>	<b>Meaning</b>
0-500 Pa to 0-35000 Pa	4-20mA = 0-#### Pa	The measurement range of the signal output (terminals 15, 16) is 0-#### Pa  only RM-310 CT

**Disclaimer**

The contents of this documentation have been verified for correctness and completeness. Nevertheless, errors can not be excluded so that we cannot guarantee the correctness of this information. Subject to alterations at any time.