

## M40113.V01 8 channel measuring unit

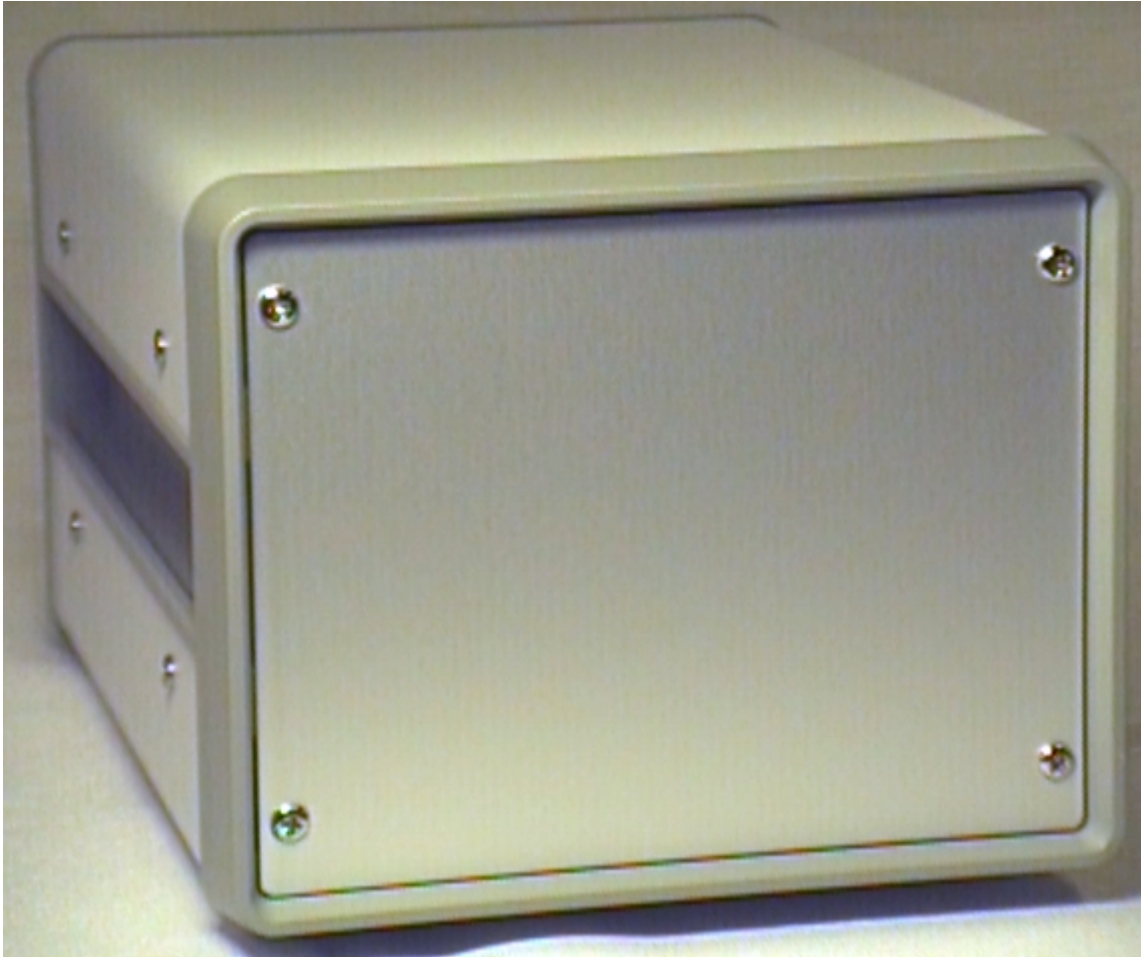
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The measuring unit M40113.V01 reads the measuring values from max. 8 inductive tracers Voß QET-4124 (2mm range) or QET-4001 (1mm range) \*\*\*. These values may be read out through the profibus interface in binary coding.

\*\*\* with software release 101 and above.

## 1. Displays and control elements

front view



Back view



- |         |  |
|---------|--|
| T1 - T8 | Input inductive tracers                        |
| X312 -  | Profibus interface                             |
| X401 -  | Input power supply                             |
| X402 -  | RS 232 interface 9pol. female Sub D            |
|         | Pin3: Output ; Pin7: Signal Ground             |
|         | RS-232: 9600 Baud, 8 Bit, 1 Stopbit, no parity |
| S1 -    | Power supply switch                            |
| F1-     | Power supply fuse                              |
| -12V -  | Indicator -12V supply                          |
| +12V -  | Indicator +12V supply                          |
| + 5V -  | Indicator + 5V supply                          |

## 2. Technical data

KompaktMeßeinheit A&V 4384 without LCD-Display.

housing 1/3 19", 3HE, 280mm deep.

8x input for inductive tracers +/-2mm QET-4124 oder +/-1mm QET-4001;

Profibus interface.

## 3. Power Supply

Connect the measuring equipment at X401 via the power cable (europ. Standard) to a power supply of 230 V, 50-60 Hz and turn the power switch S1 at the back into ON position. To avoid influence of temperature the measuring equipment should be turned on ten minutes before the first measurement.

## 4. PROFIBUS-Interface X312 (s. back view)

9pol. female Sub D

Term.: switchable terminal resistor for the busline

Diag: LED-Status display  
Left- Green ON = Unit Ready  
Center- Green ON = PROFIBUS Aktive  
Right- Red ON = PROFIBUS Passive

Adr.: Address switch (Range 00-99) hidden elements  
x1 = low decimal  
x10 = high decimal

## 5. Connection schematics

### Input measuring amplifier

5pin female, Fabr. Binder Series 680

Supply: 3V, 9,8kHz AC

Pin description

1	Output Supply A
2	Ground
3	Signal input
4	not used
5	Output Supply B

Bedeutung	Eingänge von der SPS		Ausgänge zur SPS	
	Bit-Nr.	Wort 0	Bit-Nr.	Wort 1
Taster 1	0		0	0
Taster 2	1		1	1
Taster 3	2		2	2
Taster 4	3		3	3
Taster 5	4		4	4
Taster 6	5		5	5
Taster 7	6		6	6
Taster 8	7		7	7
MAX-Wert Taster 1	8		8	8
MAX-Wert Taster 2	9		9	9
MAX-Wert Taster 3	10		10	10
MAX-Wert Taster 4	11		11	11
MAX-Wert Taster 5	12		12	12
MAX-Wert Taster 6	13		13	13
MAX-Wert Taster 7	14		14	14
MAX-Wert Taster 8	15		15	15
MIN-Wert Taster 1	0		0	0
MIN-Wert Taster 2	1		1	1
MIN-Wert Taster 3	2		2	2
MIN-Wert Taster 4	3		3	3
MIN-Wert Taster 5	4		4	4
MIN-Wert Taster 6	5		5	5
MIN-Wert Taster 7	6		6	6
MIN-Wert Taster 8	7		7	7
Xquer-Wert Taster 1	8		8	8
Xquer-Wert Taster 2	9		9	9
Xquer-Wert Taster 3	10		10	10
Xquer-Wert Taster 4	11		11	11
Xquer-Wert Taster 5	12		12	12
Xquer-Wert Taster 6	13		13	13
Xquer-Wert Taster 7	14		14	14
Xquer-Wert Taster 8	15		15	15

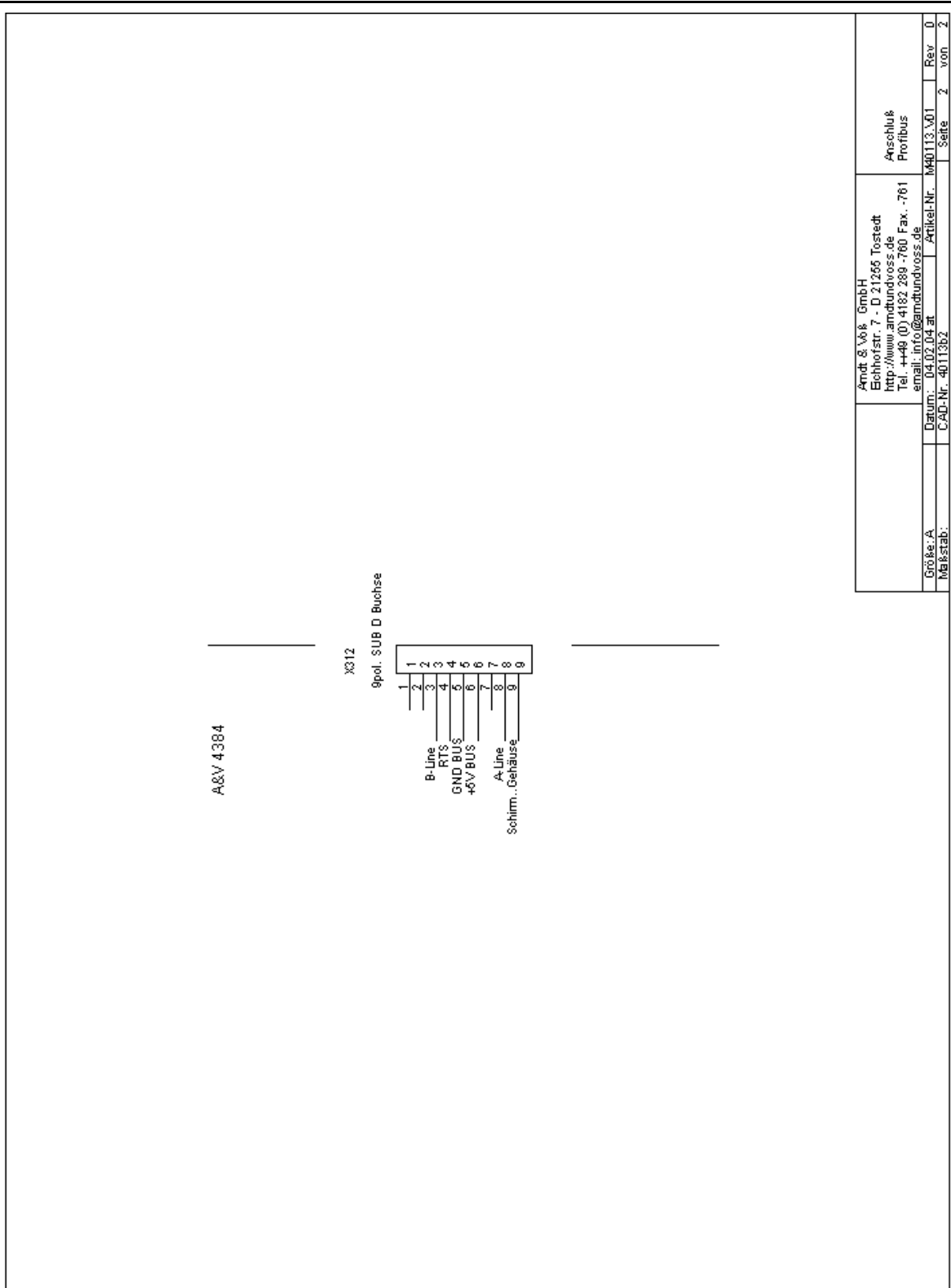
Eingänge von der SPS		Ausgänge zur SPS	
Bit-Nr.	Wort 0	Bit-Nr.	Wort 1
0		0	
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	
15		15	

**Meßwertaufnahme und -übertragung**

2.2.05 Mebereich 23.2.05 MAX,MIN,Xquer 25.2.05 Mewert FREILAUFEND	Arndt & Vo GmbH Eichhofstr. 7 - D 21255 Tostedt http://www.arndtundvoss.de Tel. ++49 (0) 4182 289 -760 Fax. -761 email: info@arndtundvoss.de	Signalverlauf Mewertbertragung
Gre: A Meistab:	Datum: 04.02.04 at CAD-Nr. 40113b1	Artikel-Nr. M40113.V01 Rev. 0 Seite 1 von 2



Größe: A	Datum: 04.02.04 at	Artikel-Nr.	M40113.V01	Rev. 0
Maßstab:	CAD-Nr. 40113b2			von 2
Arndt & Voß GmbH Eichhofstr. 7 - D 21255 Tostedt <a href="http://www.arndtundvoss.de">http://www.arndtundvoss.de</a> Tel. ++49 (0) 4182 289-760 Fax. -761 email: <a href="mailto:info@arndtundvoss.de">info@arndtundvoss.de</a>			Anschluss Profibus	
			Seite	2

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**Security comments according to VDE 0411**

General technical

time for warming up	20 minutes
temperature	0...+40 Grd C
atmospheric humidity	on to 75% rel.
frequency	50/60 Hz
power supply voltage	230V +/-10%
security	according to VDE 0411, protection class 1

This unit is built and checked under DIN 57411 part 1/VDE 0411 part 1 and left the factory in a safe and perfect condition. To preserve this condition and to guarantee a safe working the user has to follow the comments and warnings which are given in this instructions.

Before turning on the power you have to make sure, that the voltage of operation and the mains voltage correspond.

The mains plug may only be inserted into a socket with ground contact. The safety effect may not be abolished by an extension lead without ground connection.

The opening of covers or removing of components, except if it is possible to do by hand, might uncover parts or connections under dangerous voltage.

Racks may only be used inside a cover.

If an adjustment, a maintenance or a repair at the opened unit under voltage is unavoidable, it may be done only by a qualified employee, who is well acquainted with the dangers involved.

**ATTENTION:**

After the end of those works, the unit has to be checked according to VDE 0411, part 1.

You have to make sure, that only fuses of the given type and values are taken for replacement. The use of mended fuses or short-circuiting them is inadmissible.

If it is presumed, that a safe work is not possible, you have to take this unit out of work. A safe work may not be possible, if

- there are visible damages at the unit.
- the unit doesn't work.
- after longer storage under unfavourable circumstances.
- after heavy stress of transport.