









### Carrier-Frequency Measuring Amplifiers – Field Housing

Model	MBI 46.51	MBI 50.33	MBI 46.31	MBI 46.33
Amplifier type	1-channel-CF	1-channel-CF	1-channel-CF	2-channel-CF
				
<b>Specifications</b>				
Carrier frequency	5 kHz (Opt.: 10 kHz / 20kHz)	5 kHz	5 kHz (Opt. 0,4 ... 20 kHz)	5 kHz (Opt.: 0,4...20 kHz)
Accuracy class (typ.)	0,1	0,2	0,3	0,3
Bandwidth (Hz)	500 (Opt.: 1 kHz / 2 kHz)	700	200 (Opt.: up to 3 kHz)	200 (Opt.: up to 3 kHz)
Sensitivity range (in mV/V)	25 ... 740	1 ... 200	20 ... 600	20 ... 600
<b>Versions</b>				
Euro-size card		●	● 1)	-
19" plug-in card w. front panel		●	●	-
Field housing	●	●	●	●
Desktop case	Refer to MBI 50.65 / 50.75			-
<b>Supply</b>				
+/-15VDC bipolar	-	●	● 1)	●
+24VDC unipolar	●	-	● 1)	●
230 VAC (115 VAC optional)	-	● (field housing)	●	●
<b>Outputs</b>				
+/- 10 V	●	●	●	●
0/4 ... 20 mA	●	●	●	●
Digital interfaces	-	-	-	-
<b>Features</b>				
Functional description	-	-	-	-
Operation / settings	Wide range By trimmers	By trimmers	By trimmers	By trimmers per channel
Comments	3- / 4- wire connection for LVDT / LVIT	DMS compatible	<sup>1)</sup> also available as mini-card 100x70 mm	





## Amplifiers / Signal Converters

### Carrier-Frequency Measuring Amplifiers – DIN Rail Mounting and Mini Modules

Model	MBI 46.32	MBI 46.61	Q.bloxx A106	MBI 46.12/13
Amplifier type	1- or 2-ch. CF	1-channel-CF	2-channel-CF	2-channel-CF
				
<b>Specifications</b>				
Carrier frequency	5 kHz (Option: 0,4 ... 20 kHz)	5 kHz (Opt.: 10 kHz / 20kHz)	4,8 kHz	5 kHz (Option: 0,4 ... 20 kHz)
Accuracy class (typ.)	0,3	0,1	0,1	0,3
Bandwidth (Hz)	200 (Option: up to 3 kHz)	500 (Opt.: 1 kHz / 2 kHz)	1000	200 (Option: up to 3 kHz)
Sensitivity range (in mV/V)	20 ... 600	25 ... 740	0,1 ... 1000 (dep. on range)	20 ... 400
<b>Versions</b>				
DIN EN rail-mount	●	●	●	(●) 46.12 w. adaptor
Mini modules	-	-	-	●
<b>Supply</b>				
+/-15VDC bipolar	●	-	-	●
+24VDC unipolar	●	● (9 ... 36 VDC)	● (10 ... 30 VDC)	● (23 ... 30 VDC)
230 VAC	-	-	-	-
<b>Outputs</b>				
+/- 10 V	●	●	●	●
0/4 ... 20 mA	●	●	-	(●)
Digital interfaces				
BCD parallel	-	-	-	-
RS 232	-	-	-	-
RS 485	-	-	●	-
USB	-	-	●	-
Profibus-DP (1,5 Mbaud)	-	-	●	-
Modbus	-	-	●	-
Devicenet	-	-	-	-
<b>Features</b>				
Functional description	-	-	Ext. Scaling, math. real-time functions, digital I/Os	-
Operation / settings	By trimmers per channel	Wide range By trimmers	By configuration software	By trimmers
Comments	-	3- / 4- wire connection for LVDT / LVIT	DMS and capac. Sensor compatible	-

## Amplifiers / Signal Converters

### Carrier-Frequency Measuring Amplifiers - Indicators and Others

Model	MBI 46.41	MBI 50.25	MBI 46.31	MBI 50.65 / 50.75
Amplifier type	1-channel CF	1-channel CF	1-channel CF	1- to 3-ch. CF
				
<b>Specifications</b>				
Carrier frequency	5 kHz (Option: 0,4...20 kHz)	10 kHz (Option: 5 kHz)	5 kHz (Opt. 0,4 ... 20 kHz)	5 kHz (Option: 0,4...20 kHz)
Accuracy class (typ.)	0,3	0,1	0,3	0,3
Bandwidth (Hz)	200	500	200 (Opt.: up to 3 kHz)	200 (Option: up to 3 kHz)
Sensitivity range (in mV/V)	1 ... 600	10 ... 400	20 ... 600	20 ... 600
<b>Versions</b>				
Panel mount case	●	-	-	-
Hand-held	-	-	-	-
Desktop	-	-	-	●
Euro size Card	-	●	●	
<b>Display</b>				
Display type	LED 4,5 digit	-	-	LED 4,5 digit (optional)
<b>Supply</b>				
+/-15VDC bipolar	-	●	●	-
+24VDC unipolar	● (Option)	●	●	(● Option with 50.75)
230 VAC	●	-	-	●
<b>Outputs</b>				
+/- 10 V	●	●	●	●
0/4 ... 20 mA	● (Option)	●	●	● (Option)
Digital interfaces				
BCD parallel	-	-	-	● (50.65)
RS 232	● (Option)	-	-	-
RS 485	● (Option)	-	-	-
USB	-	-	-	-
Profibus-DP (1,5 Mbaud)	● (Option)	-	-	-
Modbus	● (Option)	-	-	-
Devicenet	● (Option)	-	-	-
<b>Features</b>				
Functional description	Ext. scaling; sensor linearisation	-	-	-
Operation / settings	On front panel and by conf. software (Option)	By trimmer on front panel	By trimmer on front panel	By trimmers per channel
Comments	DMS compatible	-	-	DMS compatible (dep. on amplifier type)