## Analog measurement technology Analog interface module



## without electrical isolation

Dimensions (mm) W x H x D

16.5 x 60.5 x 90.5



## Application:

The Wieland interface modules AKB and AKT are used to transfer an analog mea-sured value from one signal format to another.

## Analog interface module without electrical isolation

Approvals: (1), CSA

Box Qty	Part No.	Part No.	Part No.	Part No.	
1 -10+10 V	-	-	-	-	
1 010 V	-	-	57.806.0053.0	57.806.1553.0	
1 020 mA	-	57.806.0253.0	-	-	
1 420 mA	-	57.806.0353.0	-	-	
Output	–1010 V	010 V	020 mA	420 mA	
Other signals on request	Ordering example:	<i>AKB</i> 20 mA / 10 V			
	57806.0253.0				
Wiring diagram, sample application	See page 510				
Technical data					
Operating voltage	24 V DC ± 20%, polarised				
Typical power consumption (Output signal 20 mA)					
at 19 V DC					
at 24 V DC	ca. 12 mA + output current				
at 29 V DC					
Input					
Input resistance:					
for standard voltage	> 1 M				
for standard current	49.9				
Maximum permitted input signal					
for standard voltage	60 V				
for standard current	70 mA (3,5 V)				
Voltage drop at 20 mA	1 V				
Input protection against voltage peaks	LC-Filter				
Output					
Internal resistance:					
for standard voltage	100				
for standard current	≥5 M				
Output load:					
for maximum standard voltage	5 mA (RL $\ge$ 100 k , see R <sub>i</sub> )				
for standard current	0500 (load)				
Maximum load error (adjustment at 100 )	0.02 % / 100				
Output protection against external voltage	Z-Diode				
Transfer procedure					
Static transmission error at 20 °C	< 0.2 % v. E.				
Temperature coefficient	< 0.015 %/K				
Effect of load impedance at current output	0.02 % / 100				
Limit frequency: (sinus 100%)					
at sinus 100%	20 kHz				
at ± 10 V	10 kHz				
Typical effect of frequency on transfer	1 % / kHz; 2°el / kHz				
Isolation					
All terminals to earth	2 kV <sub>eff.</sub>				
Temperature range					
Operating temperature range for series connection at 24 V					
vertical installation without space	050 °C	0 50 °C			
vertical installation with out space		0 60 °C			
Wire range	-40+85 °C				
	10100 0				

Subject to change without further notice