

# Application note

AD-FM 400 GA

## Description of the setting possibilities:

### Multiplicator:

These four switches show the frequency at which an output current of 20 mA is reached.

The digit position of the left part three switches show the frequency value and the fourth switch adjusts the colon, whereby position "0" to "3" are used. For example

Inputfrequenz:	setting:
12,50 Hz	1 2 5 3 für 20mA
3,20 Hz	3 2 0 2 für 20mA
0,11 Hz	1 1 0 1 für 20mA
0,08 Hz	8 0 0 0 für 20mA

### Specialty:

Colon switch in position "9" makes the AD-FM 400 a constant current source. The dividing/multiplier function is disabled and the above described switch positions are a XX,S percentage of 20 mA. Switch position 5009 means an output current of 50% of 20mA which equals a current of 10mA.

### Damping factor:

This switch sets the damping factor of the analogue output. For example in position "2" the damping time is 0,4 sec. which means that in case that no more pulses are input the output current is reduced to 50% of its value after this time.

### Lower Row of Switches:

The left side four switches work as a multiplier whereby each input pulse is multiplied by the value set here.

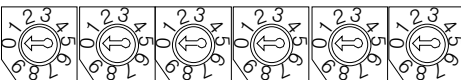
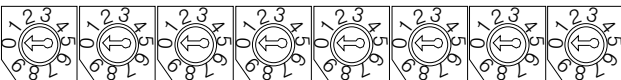
The right side 4 switches work as a divider whereby each input pulse is divided by the value set here.

Multiplier and divider can be used combined for setting fraction numbers. The following examples explain the above:

Output pulse:	Input pulse:	Switches:
1 pulse	at 2,5 pulses	0010 0025
1 pulse	at 1;33 pulses	0003 0004
12 pulses	at 1 pulse	0012 0001
1.45 pulses	at 1 pulse	0145 0100

### Pulse width:

With this switch the switch-on time of the output relais is changed. As Input signal is also Initiator or contact possible. On the output side is contact standard but it is also a semiconductor output possible.

<p>Multiplier for digit repetition outputrate                  0 = 0,00XXX                  1 = 0,0XXX                  2 = X,XX                  3 = xx,x                  9 = Output = Power source                  (Digit repetition = XX,X%)</p>	<p>Time define constant code for analogous output                  0 = without    4 = 1,6 sec    7 = 15 sec                  1 = 0,2 sec    5 = 3,2 sec    8 = 30 sec                  2 = 0,4 sec    6 = 7,5 sec    9 = 60 sec                  3 = 0,8 sec</p>
<p>Digit repetiton XXX of the inputrate                  Range 100 to 999</p>	<p>Pulse relay output                  0 = 5 msec    5 = 200 msec                  1 = 10 msec    6 = 500 msec                  2 = 20 msec    7 = 1 sec                  3 = 50 msec    8 = 2 sec                  4 = 100 msec    9 = 5 sec</p>
	
<p>Multiplier setting for Impulsmultiplier                  1 - 9999 Input ---&gt; relay output                  0 = no relay funktion</p>	<p>Divisor setting for pulse divider                  1 - 9999 Input ---&gt; relay output                  0 = no relay funktion</p>
	
<p>Setting of Divisor or Multiplier fraction with both of the Divisor or Multiplier settings</p>	

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