

Electronic Motor Speed Controller ADR010 with 0 - 10V output for Inverter and EC-Motors

RIES
SpeedLine

Application

The electronic speed controller ADR010 is designed for the use with our inverters FLC (Fan motors) and E21045 (Rotary Compressors) but also for other commercial inverters with a 0 -10V analog input. The ADR010 is also designed for all DC Motors developed for an control signal of 0-10V.

Structure, design, connections

Its structure, its connections and the handling itself is very similar to the controls of our MicroNova ADR- series. It is based on our more than 14 years experience and development in electronic speed controlling.

Power supply

The ADR010 is supplied for an input voltage of 24 V AC / DC as well as 230 V AC (ADR010—230 with transformer). It can be used for both single- and three-phase inverters and EC-Motors

Chiller and Heat pump

One can use it for the "Chiller" as well as heat pump operation. The ADR010, similar to ADR80/230, is equipped with to 2 analog inputs, like 2 NTC-temperature-sensors and/or 2 pressure transmitters, 4-20mA, 0-20mA, 0-5V, 0-10V. An external control signal of 0-10V or 4-20 mA can also be merged.

Languages

In order to enable a worldwide use, the settings are implemented in understandable words in English, German, French, Italian and Spanish.

Refrigerants

For use in refrigeration and heat pump technology the ADR010 contains pressure and temperature data of the refrigerants R410A, R407C, R404A, R507, R134A, R22, R32, R290, R600A, R717, R744.

Firmware update

Through an appropriate port, it is possible to merge the latest firmware. For the next generation a port for internet is provided. This connection will allow an Internet modem to query the system status and a change in the system parameters.

Changing parameter

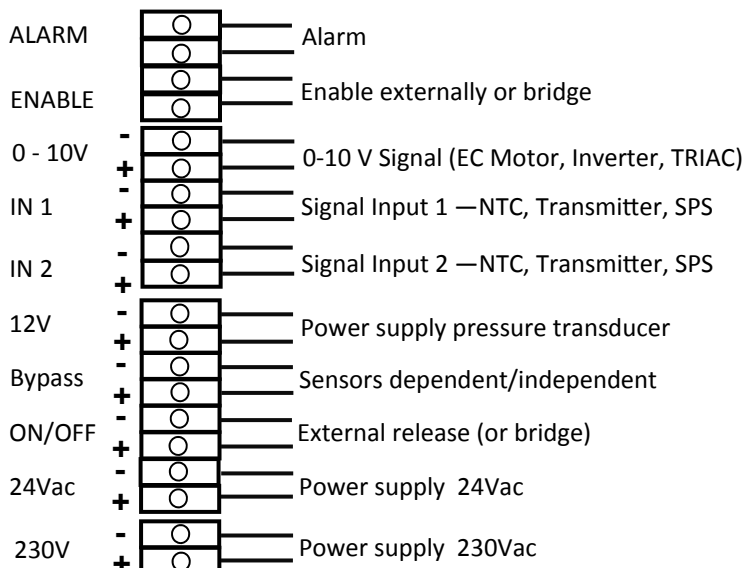
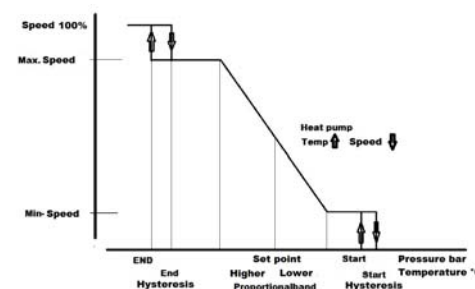
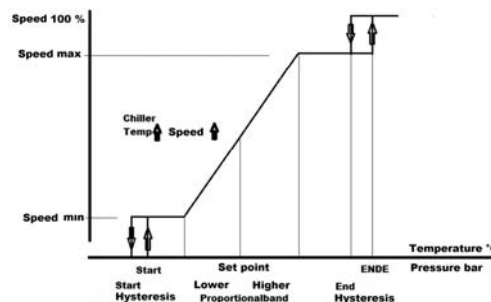
The multilingual display can be parameterized by 5 keys. Two separate LEDs indicate power and alarm.

Analogue Input

2 x 4-20mA or 2x 0-20mA or 2 x 0-5V or 2 x 0-10V

2 x NTC (10kOhm) or SPS 1x 0-10V or 1x 4-20mA

Typ	Supply Voltage to ADR010	Output signal to Inverter or EC-Motor	Execution
ADR010	24 V AC/DC	0 - 10 V	In Box
ADR010-230	230V AC	0 - 10 V	In Box



Power supply	
ADR010	24 VAC/DC,
ADR010-230	230 V AC and 24 VAC/DC,
Power supply Connection	Screw-type connections for max. 2.5 mm ²

LCD	
View area Width	62.0 mm
View area Height	26.0 mm
Number of characters	16 characters x 4 lines
LCD type	STN Negative, Blue Transmissive
Backlight Type	LED, White

Keys & LEDs	
Number of keys	5 (up, right, down, left, ON/OFF/ OK)
Number of LEDs	2 (alarm, power)

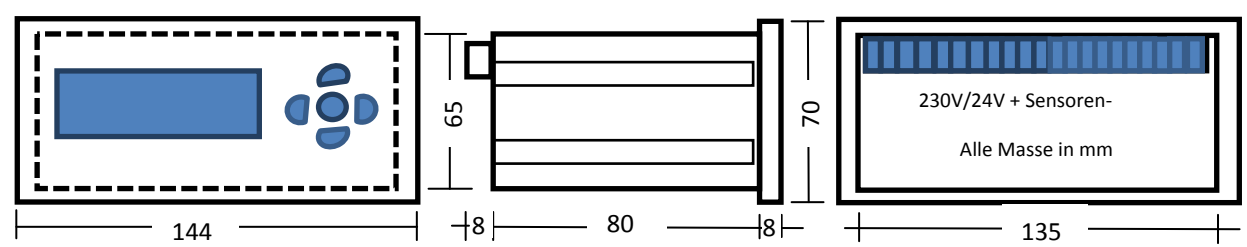
Analogue Input	
1 or 2 Pressure Transducer	4-20 mA, 0-20 mA, 0-5 V, 0- 10V
1 or 2 Temperature sensor(s)	NTC (10 kOhm)
1 external SPS control	4 - 20 mA, 0 - 10 V
Analogue Input Connections	Removable screw-type connections, max. 2.5 mm ²
Pressure range	0 - 60 bar (depending on pressure transducer)
Temperatur range	-40 to +80 °C (depending on temperature sensor)

Output	
To control inverter	0 - 10 V, (0-5V available on request)
Alarm signal	Normally open

Other connections	
Bypass connection for a dual-set control	Yes
Connection to upload and update the software.	Yes
Connection for internet device	Available in next edition
Jumpers to select NTC/Current/ Voltage	Yes

Other features	
Working modes	Chiller, Heat pump
Available Refrigerant data	R410A, R407C, R404A, R507, R134A, R22, R32, R290, R600A, R717, R744
Pressure control data	in bar or C°
Languages	Deutsch, English, Italian, Français, Español
Operating conditions	-10 - +55 °C, Humidity: less than 90% R.F, not condensing

Dimensions



Electronic Controller **Speed Line**
ADR010
with 0-10V Output

