




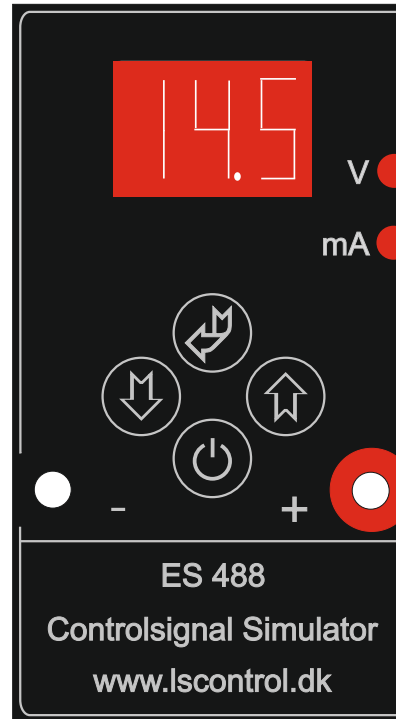
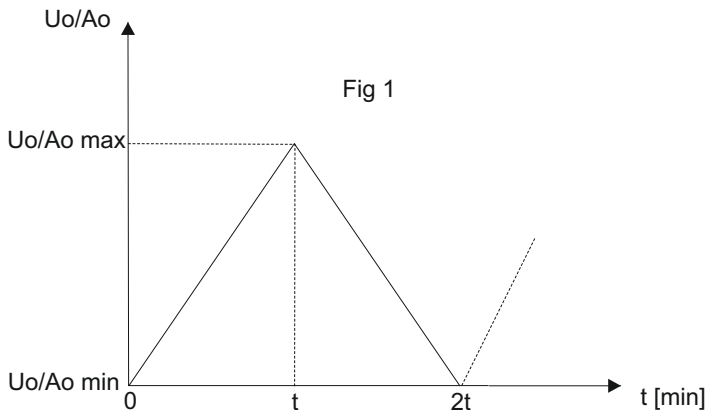
ES 488 0-10V Control Signal Simulator

Application:




Operating buttons :

-  On/Off
-  Confirm function selection
-  Up/down adjustment and selection of function




Ramp function :





Function Selection :




Press  and use  to choose.
 Uo: Voltage output. Ao: Current output.
 rU: Ramp voltage. rA: Ramp current.
 Confirm choice with 

When selecting ramp Voltage/Current :

- 1) Adjust ramp time.
- 2) Press  Adjust min. Voltage/Current
- 3) Press  Adjust max. Voltage/Current
- 4) Press  and ramp starts.

Displaying Current : 
 ↑ ↑ ↑
 Tens Ones Decimal

By display under 10mA numbers are displayed in one display.
 Eks. 

By display from 10mA to 20mA numbers are split up in 2 displays as
 1) tens and ones 2) decimal
 Eks.  -> 1)  2) 

When adjusting up/down ones and decimal is shown.

Technical Specifications:

Power Supply:	9 VDC battery
Consumption;	
- When turned off:	0 mA (battery consumption)
- When turned on, no load:	16 mA (battery consumption)
Operating time full load	approx. 1 hour.
Operating time no load	approx. 8 hours.
Out put	0-10V/4-20mA.
Tolerance	0-10V:±0.1V 4-20mA:±0.2mA.
Load	100 - 500 ohm.
Ramp times	10-50 sec., 1-10min., 20, 30, 40, 50, 60min.
Output sockets:	4mm banana jacks
Fuse:	F200mAH
Dimensions (hxxwxd):	27 x 60 x 101 mm.
Operating Temperature:	0-40 °C

Description:

ES488 can be used when you need a 0- 10VDC / 4-20 mA control signal for function testing equipment which are regulating on the basis of a 0-10VDC / 4-20 mA control signal.
 NOTE: ES488 can only supply the control signal for eg. a damper and not the power supply.
 Es488 has a voltage output dissolution of 0.1V per step or a current output dissolution of 0.2mA per step.
 It is possible to make the voltage or current vary automatically in a ramp.
 Output can in a set time between 10 sec. and 1 hour be changed between a minimum value for voltage/current and a maximum value. Minimum difference between these values are 1V or 2mA (see Fig 1).
 Output is short-circuit safe and secure from 230 VAC.

Other functions :

- 1) Display of battery level at start-up. Flashes at low battery level.
- 2) Automatic turn-off. At start-up the Es488 turns off if no buttons has been pushed within 30sec.
- 3) ES488 cannot be turned off the first 10 sec. after start-up.
- 4) Displaying of current / voltage - see drawing at left.

Maintenance:

At a battery level around 8 VDC, the battery should be replaced. ES488 flashes the display numbers when the measured voltage on the battery gets below 8 VDC.

Drawing: 950-206997 ES488_0-10V_Control_Signal_Simulator

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Tegnet af: AH/df

Rev.: 1.0

Producent: **LS Control A/S**

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