DS005en	Data Sheet	GRUNER
UEA0 - Potentiometer Series	Room Potentiometer with Analogue Output	

The Room Potentiometer (UEA0- Potentiometer series) is designed for use with modulating damper actuators, valve actuators or general use

Rotary Knob is proportional to the a control signal output

The Rotary Knob range is 0–100 %, corresponding to 0–100 % Controls Signal output

The Controls Signal can be 0–10 V or 4–20 mA, field selectable

Room Potentiometer is supplied with 24 V AC/DC

Use

The Room Potentiometer is used for remote control of damper actuators, valve actuators or general use

Compatible with all common HVAC devices

Field selectable 0–10 V or 4–20 mA control output

Suitable for Room mounting

Used in Commercial and Industrial Buildings

Features

The Room Potentiometer is supplied with 24 V AC/DC

The Controls Signal can be 0–10 V or 4–20 mA, field selectable

Easy to connect via plug-in terminals

Professional and practical product design

Easy to use, install and maintains free

Product Range

Order Code	Power Supply	Control Output	Control Signal Knob	Mounting	Protection	Size (L × W × H)
UEA0G.P	AC/DC 24 V (±10 %)	Corresponding to Control Signal Knob Position 0–10 V or 4–20 mA	Free ajustable from 0–270° (0–100 %)	Room Wall Mounting	IP20	86 × 86 × 23 mm

Application	Specification	Proportional to the position of the rotary knob, a control signal is generated	
		The control signal can be either 0–10 V or 4–20 mA (field selectable)	
		The rotary knob is freely ajustable beween 0–.270°(0–100%)	
		The position of the rotary knob is proportional to the control signal	
		0 % scale value = 0 % output signal (0 V or 4 mA)	
		100 % scale value = 100 % output signal (10 V or 20 mA)	
Technical Information	Electrical Information	Power Supply	AC/DC 24 V (±10 %)
		Frequency	50 / 60 Hz at AC 24 V
		Terminal Clamp	Screw terminal, max. 1.5 mm²
		Power Consumption	max 1 VA
	Mechanical Information	Cable Entry	~50 mm × 10 mm on the backside
		Change of output signal (0…10V/4…20mA)	Via jumper on the PCBA board
	Color and Materials	Housing Cover	ABS, white
		Housing Bottom	ABS, white
		Rotary Knob	ABS, Grey
		Flammability Standard	UL94class HB ; IEC 6070 ; ISO 9770
	Environmental Conditions	Operation Temperature	0 °C to +50 °C
		Operation Humidity	<85 % RH, no condensation
		Transport Temperature	−35 °C to +70 °C
		Transport Humidity	< 90 % RH
		Storage Humidity	< 85 % RH, no condensation
	Norms and Directives	IP-Rating	IP20 to IEC60529
		Safety Class	III to EN 60 730
		CE Conformities to	2004/108/EG Electromagnetic Comp. EMV
		CE Electromagnetic Compatibility Emitted Interference	2000/EN60730-1 Emitted Interference
		CE Electromagnetic Compatibility Interference resistance	2000/EN60730-1 Interference Resistance
		RoHS Compatibility	RoHS 3, Directive 2015/863
		Operation Climatic Condition	IEC 60 721-3-3
		Operation Mechanical Condition	IEC 60 721-3-2 to class2M2
		Transport to Environmental Condition	IEC 60 721-3-2
		Transport Mechanical Condition	IEC 60 721-3-2 to class2M2
		Storage Environmental Condition	IEC 60 721-3-1
		Storage Mechanical Condition	IEC 60 721-3-1 to class2M2
Miscellaneous	Accessories	Accessory not included in delivery	N/A
	Shipping & Handling	Minimum Order	1 box with 1 piece
		Packaging	Rigid Cardboard Packaging
	Order Notes	Order Code	UEA0G.P

Advices

Installation Notes

Caution

Observe the following general regulation for engineering and implementation:

All relevant national and heavy power regulations

Other country specific regulations

Country-specific regulations

Local electrical supply authority regulations

Schematics, cable listings, dispositions, specification and arrangements from the customer or engineering office in charge

Third party specifications, e.g. general contractors or constructors.

Mounting Advices

Caution

The Transformer is designed for indoor only use.

When using several Transformer in one system, the G0 must be galvanically connected.

Never remove the cover of the Transformer

Disposal Notes

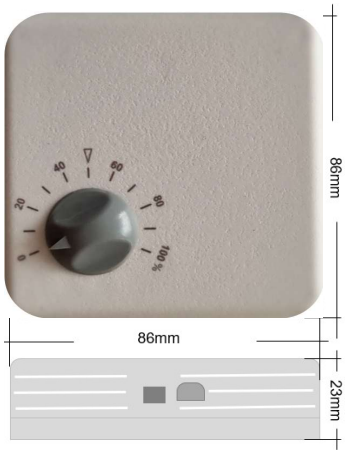
The device is considered an electronic device for disposal in terms of the EUROPEAN DIRECTIVE 2012/19/EU.

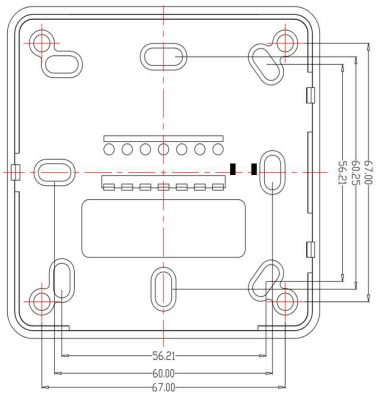
The device may not be disposed as domestic garbage.

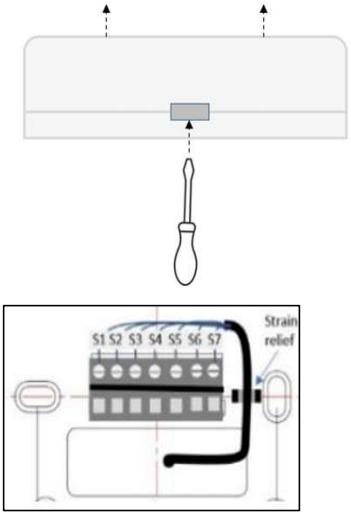
The device must be disposed through channels provided for this purpose.

It is mandatory to comply with local currently applying laws and regulations.

Dimensional Drawing







Connections

Terminal Connections			
S1	S2		S4
UB+ 24 V AC/DC	GND		Output

Jumper Settings (0–10 V / 4–20 mA) Output