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KNX-40E-1280D **Instruction Manual** 

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# KNX-40E-1280D Instruction Manual

### 1. Overview

### 1.1 Overview devices

The manual refers to the following devices: (Order Code respectively printed in bold type):

- KNX-40E-1280D: INPUT: 180 ~ 264VAC 47 ~ 63Hz, OUTPUT: 1280mA, 30V

## 1.2 Usage & possible applications

The KNX power supply KNX-40E-1280D is a 1280mA power supply with high efficiency and a small footprint of only 4SU (72mm). The device has a KNX bus choke output and additional output for auxiliary power. The -30 ~ +70°C wide temperature operating range can meet all kinds of applications. For troubleshooting, monitoring purpose, output voltage, output current, bus traffic, device temperature and other actual measurement values can be sent via KNX. LED indicators are used in case of normal operation, overload conditions and RESET operation. It is perfectly suitable to power up any products labeled with the KNX trademark. distril

## 1.3 Displays and operating elements



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(A): Bus connection terminal (B): Programming button

: Programming LED

: AC input

: Ancillary power output

F: Reset button

: Reset LED

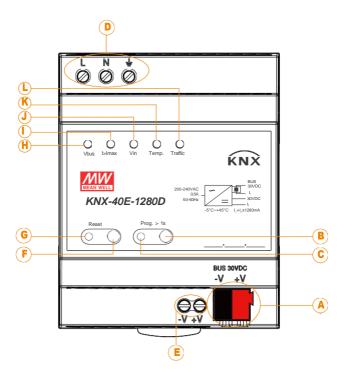
: Bus voltage LED, Vbus

: Output current LED, I > Imax

: Power Input LED, Vin

: Internal temperature LED, Temp

Telegram traffic LED, Traffic



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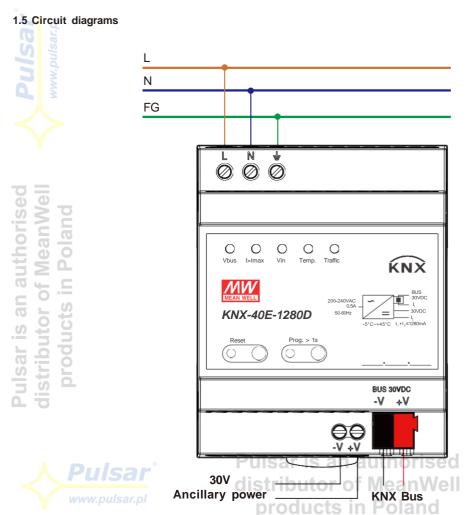
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# 1.4 Explanation of LED status

Number	LED light	Color, Indicate type	Explanation/Range
С	Programming	Red, constant	Device is in Program mode
G	KNX Reset	Red, constant	Device is during a KNX bus restart
		Green, constant	KNX Bus voltage is 28~31VDC
D H	Bus voltage,V <sub>bus</sub>	Red, constant	KNX Bus voltage < 28VDC
Z U		Orange, constant	KNX Bus voltage > 31VDC
ar Ia		Green, constant	Output current < 1280mA
9	Output current,I > Imax	Orange, constant	Output current is 1280mA~1600mA
2		Red, constant	Output current >1600 mA (Overload)
0 :-		Green, constant	Powered by AC input
or Sts	Power Input,Vin	Green, flashing	Powered by DC input
ute uo		Red, constant	AC/DC input fails
D DQ	Internal Temperature T	Green, constant	Internal Temperature is 0~75°C
Ē	Internal Temperature,Temp	Red, constant	Internal Temperature is out of this range
S	Tologram troffic T	Green, flashing	Telegram load < 80 %
0	Telegram traffic,Traffic	Red, constant	Telegram load >= 80 %

Note: Application data base needs to be downloaded into KNX-40E-1280D for the LED indicator to work properly.



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#### 1.6 Wiring

- Use wires with an adequate cross-section
- Use suitable mounting tools to do the wiring and mounting
- The maximum number of bus devices connected is 256
- The maximum length of a line segment is 350 m, measured along the line between the power supply and the furthest bus device
- -The maximum distance between two bus devices cannot exceed 700 m
  - The maximum length of a bus line is 1000 m, keeping into account all segments

Туре	AC and ancillary power terminals (L, N, $\frac{1}{=}$ , +V, -V)	KNX bus terminal (BUS +V, BUS -V)		
Solid wire	0.5 ~ 4.0mm	0.6 ~ 0.8Ф		
Stranded wire	0.5 ~ 2.5mm²			
American wire gauge	12 ~ 26AWG	20 ~ 22AWG		
Wire stripping length	6.5mm (0.255")	5mm (0.196")		
Screwdriver 3mm Slotted				
Recommended tightening torque 8 kgf-cm (7 lb-in)				

#### 1.7 Information at the ETS-Software

Selection at the product database:

Manufacturer: MEANWELL Enterprises Co.Ltd. Product family: System Devices

Product type: Power Supply Unit

Product name: addicted to the used type, e.g.: KNX-40E-1280D, Power Supply (230V/1280mA)

Order number: addicted to the used type, e.g.: KNX-40E-1280D

## 1.8 Starting up

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After wiring, the allocation of the physical address and the parameterization of every channel follow:

- (1)Connect the interface with the bus, e.g. MEANWELL USB interface KSI-01U.
- (2)Switching the power supply.
- (3) Set bus power up.
- (4) Press the programming button at the device (red programming LED lights).
- (5) Loading of the physical address out of the ETS-Software by using the interface (red LED goes out, as well this process was completed successful).
- (6) Loading of the application, with requested parameterization.
- (7) If the device is enabled you can test the requested functions (also possible by using the ETS-Software).



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# 2. Communication Objects 2.1 Summary and Usage

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Num	Object Function	Length	DPT	Flag	Function Area	Description
Centra	l Objects:					
1	Heartbeat	1bit	Trigger (DPT 1.017)	CRT	Information	This object is shown permanently and a telegram of "1" is sent at regular intervals when working normally
2	Power supply on	1bit	Trigger (DPT 1.017)	CRT	Information	This object is shown permanently and after initial startup or reset is done, a telegram of "1" will be sent
3	Send measurments	1bit	Switch (DPT 1.001)	CRT	Request	This object is shown permanently. All actually measured values (output current, output voltage, temperature, busload) are sent as response to a telegram with "1"
	Clear all data	1bit	Switch (DPT 1.001)	cw	Request	This object is shown permanently. All number counter values and time counter values except working time, startup times are set to zero by a telegram with "1".
5	Send calculations	1bit	Switch (DPT 1.001)	CW	Request	This object is shown permanently. All actual number counter values and time counter values (overload count, overload duration, short circuits count, time load detached, reset count, KNX bus restart, device startup, working time, operating time since last startup, alarm duration 1-4, alarm count 1-4) are sent as response to a telegram with "1
6	Bus reset	1bit	Switch (DPT 1.001)	DPT	Reset Request	This object is shown permanently. Triggered by a telegram with value 0 or 1 the device starts a reset process.
7	Total working time	4 bytes	time lag(s) (DPT=13.100)	CRT	Analysis	The device sends the time counted value of the total working time in s. Note: No matter Total Working Time is enabled or not, this value is saved automatically and cannot be cleared.
8	Time from last start up	4 bytes	time lag(s) (DPT=13.100)	CRT	Analysis	The device sends the time counted value of the time elapsed since last device startup in s.
9	The number of bus restart times	2 bytes	pulses (DPT = 7.001)	CRT	Analysis	The device sends the number counted value of KNX bus restarts.
10	The number of device start up times	2bytes	pulses (DPT = 7.001)	CRT	Analysis	The device sends the number counted value of device startups. Note: No matter Startup Times Count Read is enabled or not, this value is saved automatically and cannot be cleared.
) 11	Output voltage	2bytes	Voltage(mV) (DPT=9.20)	CRT	Measurement	The device sends the measured output voltage
	measured	4bytes	electric potential(v) ( DPT=14.027)	OKI		value in V or mV at regular intervals.
12	Output voltage alarm	1bit	Alarm (DTP = 1.005)	CRT	Alarm	When the measured value is out of the normal working range a telegram with value 0 or 1 is sent. When the measurement values return to the normal range a telegram with value 0 or 1 is sent.
D	IIC24°	2bytes	current,mA (DPT=7.012)	ar is ar	author	sed
13 WW	Output current measured	2bytes	current,mA (DPT=9.021)	CRT	Measurement	The device sends the measured output current value in A or mA at regular intervals.
		4bytes	electric current,A (DPT=14.019)	Duucts	III F Olal	
14	Output current alarm	1bit	Alarm (DTP = 1.005)	CRT	Alarm	When the measured value is above the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range (less than the hysteresis) a telegram with value 0 or 1 is sent.

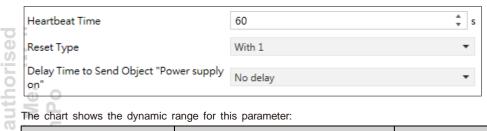
15	Device temperature measured	2bytes	temperature,°C (DPT=9.001)	CRT	Measurement	The device sends the measured device temperature value in °C at regular intervals.	
16	Device temperature alarm	1bit	alarm (DTP = 1.005)	CRT	Alarm	When the measured value is above the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range (less than the hysteresis) a telegram with value 0 or 1 is sent.	thorised
Pola	Maximum	2bytes	current,mA (DPT=7.012)				tho
_17	output current during tracking	2bytes	current,mA (DPT=9.021)	CRT	Measurement	The device sends the measured output current value in A or mA at the end of each period.	aut
ts	period	4bytes	electric current,A (DPT=14.019)				an
DID18	Maximum device temperature during tracking period	2bytes	temperature,°C (DPT=9.001)	CRT	Measurement	The device sends the measured device temperature value in °C at the end of each period.	ulsar is
19	Busload measured	1byte	percentage, 0~255% ( DPT=5.004)	CRT	Measurement	The device sends the measured Bus load value in % at regular intervals [0-255%]	Pı
20	Busload alarm	1bit	alarm (DTP = 1.005)	CRT	Alarm	When the measured value is above the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range (less than the hysteresis) a telegram with value 0 or 1 is sent.	Isar
21	The number of overload times	2bytes	Pulses (DPT = 7.001)	CRT	Analysis	The device sends the number counted value of overload at regular intervals.	hd
22	Overload duration	4bytes	Pulses (DPT = 7.001)	CRT	Analysis	The device sends the total duration time in overload in second	
23	The number of short circuits times	2bytes	Pulses (DPT = 7.001)	CRT	Analysis	The device sends the number counted value of short circuit at regular intervals.	sed
24	Time load detached	4bytes	time lag(s) ( DPT=13.100)	CRT	Analysis	On activation the device sends the time counter value of load detachments	thorised
<b>J</b> UI 25	Alarm 1	1bit	Alarm (DTP = 1.005)	CRT	Group Alarm	When the measured value is above/below the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range (less/higher than the hysteresis) a telegram with value 0 or 1 is sent.	s an au
26	Count 1	2bytes	Pulses (DPT = 7.001)	CRT	Group Alarm	The device sends the number counted value of threshold events for output current, output voltage or device temperature.	Isar
27	Duration 1	4bytes	time lag(s) ( DPT=13.100)	CRT	Group Alarm	The device sends the total duration time (in second) for output current, output voltage or device temperature.	hd
28	Alarm 2		Pule	ar ie ar	author	sed	r
31	Alarm 3		distr	ibutor	of Mean	Nell Pul	Sa
WW	w. <u>pul</u> sar.pl			oducts	in Polar	www.pi	ulsar
34	Alarm 4		pr	Duucis	III Polaľ		
	l .		1	1	1		l

# 3. Reference ETS-Parameter

### 3.1 General function

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General Settings contains some useful functions, such as heartbeat, sending a power supply presence message, and remotereset by using a telegram.



The chart shows the dynamic range for this parameter:

FTC tout	Dunamia mana	Comment
ETS -text	Dynamic range	Comment
	[default value]	
Heartbeat Time	10 - 36,000S	Heartbeat telegram is sent at regular intervals to
<u> </u>	[60s]	indicate that the power supply is working normally
Reset Type	- With O	Set types of telegram to trigger a remote reset to
0	- With 1	restart the KNX but. NOTE: The device resets itself
	- With 0 or With 1	automatically when it is in short circuit conditions for
		10 secs
Delay Time to Send Object :	No delay, 1min, 2min, 3min, 4min, 5min,	After returning to normal working condition, a telegram
Power supply on	10min, 15min, 20min, 25min, 30min,	is sent after this time delay to notify the power supply
d'.v	1hour, 2hours, 3hours, 4hours, 5hours,	is ready
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	6hours, 7hours, 8hours [No delay]	
<u> </u>	[NO delay]	

The following chart shows the objects that belong to general setting:

Number	Name	Length	Usage
1	Heartbeat	1 bit	Send a telegram of "1" to the system at regular intervals when working normally
and and	Power supply on	1 bit	After initial startup or reset, a telegram of "1" will be sent after a time delay you set via this object

# 3.2 Measurements

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This menu contains three measurements, Output Voltage, Output Current and Device Temperature.

# 3.2.1 Output Voltage Measurement

This function can be used to monitor output voltage, sending values measured and rising alarm when the output is out of the working range, 28V - 31V. Pulsar

Voltage Measurement	Enable	
Voltage Object Type	2 Byte (DPT 9) 0 4 Byte (DPT 14)	
Voltage Cyclic Sending	OFF	•
Voltage Alarm	O Enable O Disable	
Behaviour On Voltage Alarm Active	Send 1	•
Behaviour On Voltage Alarm Deactive	Send 0	*



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ETS-text	Dynamic range [default value]	Comment
Voltage Measurement	- Disable - Enable	Enable or disable voltage measurement
Voltage Object Type	- 4byte[DTP14] - 2byte[DPT9]	Select data point type
Voltage Cyclic Sending	OFF, 1min, 2min, 3min, 4min, 5min, 10min, 15min, 20min, 25min, 30min, 1hour, 2hours, 3hours, 4hours, 5hours, 6hours, 7hours, 8hours	Send the latest voltage value at intervals you desired
Voltage Alarm	- Disable - Enable	Enable or disable the alarm function
Behaviour On Voltage Alarm Active	- Nothing to do - Send O - Send 1	Select a reaction when there is abnormal voltage
Behaviour On Voltage Alarm Deactive	- Nothing to do - Send 0 - Send 1	Select a reaction after abnormal voltage is removed

The following chart shows the objects that belong to general setting:

Number	Name	Length	Usage
11	Output voltage measured	2bytes	The device sends the measured output voltage
		4bytes	value in V or mV at regular intervals.
and and	Output voltage alarm	1 bit	When the measured value is out of the normal working range a telegram with value 0 or 1 is sent. When the measurement values return to the normal range a telegram with value 0 or 1 is sent.

# 3.2.2 Output Current Measurement

			working range a f	telegram with value 0 or 1	is
			sent. When the r	measurement values return	to 5
O			the normal range a	a telegram with value 0 or 1	l is S Z T
an			sent.		un/ an
Output C	urrent Measurement				utho Mea Pol
This funct		or load conditio	ns, sending current meas	sured and rising alarm wher	o do ii
Current Me	asurement	Enable Di	sable		cts
Current Obj	ect Type	4 Byte (DPT 14)		•	r is
Current Diff	erence Sending	OFF		•	S II O
Current Cyc	lic Sending	OFF		•	
Current Ala	rm	O Enable O Di	sable		ш о
Current T	hreshold	1280	<b>‡</b>	mA	
Current H	lysteresis	10	÷	mA	Dulone
Behaviou	r On Current Alarm Active	Send 1			Pulsar
Behaviou	r On Current Alarm Deactive	Send 0		•	www.pulsar.pl



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ETS-text		,	mic range		Comment	
Current Meas	surement	- Disa - Enat			Enable or disable current measurement	
Current Obje	ct Type	· ·	<b>e[DTP14]</b> e[DPT9]		Select data point type  Difference between actual and last sent value which triggers the sending  Send the latest current value at intervals you desired  Enable or disable the alarm function	
Current Diffe	rence Sending	25mA 50mA	10mA, 15mA, 2 , 30mA, 40mA, , 60mA, 70mA, , 90mA, 100mA		Difference between actual and last sent value which triggers the sending	
Current Cyclic Sending		4min, 20mir 1hour 4hour	1min, 2min, 3m 5min, 10min, 1s a, 25min, 30min, c, 2hours, 3hours s, 5hours, 6hou s, 8hours	5min, , s,	desired	
Current Alarn	Current Alarm		i <b>ble</b> ole		Enable or disable the alarm function	
w.pul.	Current Threshold  Current Hysteresis		00mA <b>mA]</b> 80mA		Select a threshold value to perform the "Behaviour on Current alarm Active"  Select a hysteresis value to perform the "Behaviour	
Behaviour Or	Current Alarm Active	- Noth - Send	ing to do		on Current alarm Deactive"  Select a reaction when current is higher than  Current Threshold	
nWell and	Behaviour On Current Alarm Deactive		ing to do d <b>0</b>		Select a reaction when current is lower than a value of "Current Threshold" -" Current Hysteresis", e.g. 1280mA - 10mA = 1270mA	
0	chart shows the objects that	at belon			9	
Number	Name Output current measured		Length 2bytes 4bytes	1	evice sends the measured output voltage in A or mA in regular intervals.	
distribut produc	14 Output current alarm		1 bit	a tele measi (less	the measured value is above the threshold gram with value 0 or 1 is sent. When the urement values return to the normal range than the hysteresis) a telegram with value is sent.	

		Ociic	4 •			
Behaviour On Current Alarm Deactive		- Nothi	- Nothing to do		Select a reaction when current is lower than	
Φ		- Send	d <b>O</b>		of "Current Threshold" -" Current Hysteresis"	
3 6		- Send	1 1		1280mA - 10mA = 1270mA	
The following	chart shows the objects the	at belon	g to general	setting:		
Number	Name		Length	Usage	e	
13	Output current measu	ıred	2bytes	The d	evice sends the measured output voltage	
or Sts			4bytes	value	in A or mA in regular intervals.	
14	Output current alarm		1 bit	When	the measured value is above the threshold	
				a tele	gram with value 0 or 1 is sent. When the	
pr				measi	urement values return to the normal range	
<u></u>				(less	than the hysteresis) a telegram with value	
				1		



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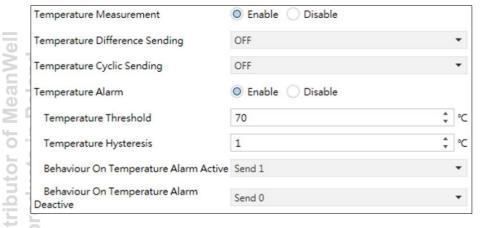


## 3.2.3 Device Temperature Measurement

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This function can be used to monitor internal temperature of the device, sending values measured and rising alarm when values are higher than the threshold.



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ETS-text	Dynamic range [default value]	Comment
Temperature Measurement	- Disable - Enable	Enable or disable temperature measurement
Temperature Difference Sending	OFF, 2°C, 3°C, 4°C, 5°C, 6°C, 7°C, 8°C, 9°C, 10°C [OFF]	Difference between actual and last sent value which triggers the sending
Temperature Cyclic Sending	OFF, 1min, 2min, 3min, 4min, 5min, 10min, 15min, 20min, 25min, 30min, 1hour, 2hours, 3hours, 4hours, 5hours, 6hours, 7hours, 8hours	Send the latest voltage value at intervals you desired
Temperature e Alarm	- Disable - Enable	Enable or disable the alarm function
Temperature Threshold	0-100°C [ <b>70</b> °C]	Select a threshold value to perform the "Behaviour on Temperature alarm Active"
Temperature Hysteresis	0-40°C [1°C]	Select a hysteresis value to perform the "Behaviour on Temperature alarm Deactive"
Behaviour On Temperature Alarm Active	- Nothing to do - Send O - Send 1	Select a reaction when temperature is higher than Temperature Threshold
Behaviour On Temperature Alarm Deactive	- Nothing to do - Send 0 - Send 1	Select a reaction when temperature is lower than a value of "Temperature Threshold" - "Temperature Hysteresis", e.g. 70°C -1°C = 69°C



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Number	Name	Length	Usage
15	Device temperature measured	2bytes	The device sends the measured output voltage value in °C regular intervals.
MeanWell Poland	Device temperature alarm	1 bit	When the measured value is above the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range (less than the hysteresis) a telegram with value 0 or 1 is sent.

# 3.3 Maximum Tracking

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Maximum Tracking

Maximum tacking is available for the measurement sources "Output Current" and "Maximum Device Temperature" and is used to find the maximum observed value over a certain period of time. At the end of each period, a measured value can be sent over the bus. distrib

Maximum Tracking Period	1800 🗘
Maximum Output Current	
Maximum Current Tracking	Enable    Disable
Maximum Current Object Type	4 Byte (DPT 14) ▼
Maximum Current Send	O Do not send Send at the end of period
Maximum Device Temperature	
Maximum Temperature	Enable    Disable
Maximum Temperature Send	O Do not send Send at the end of period

ETS -text	Dynamic range	Comment
	[default value]	
Maximum Tracking Period	10 - 36,000S	Determine the time period for tracking
≥ ₫	[1800s]	# M M M M M M M M M M M M M M M M M M M
Maximum Current Tacking	- Disable	Enable or disable maximum current tracking
ts	- Enable	an or c
Maximum Current Objet Type	- 2byte[DTP7,integer]	Select data point type
pc	- 4byte[DTP14]	ar bu
pro	- 2byte[DPT9,float]	ls stri
Maximum Current Send	- Do not send	A telegram containing the maximum measured output
	- Send at the end of period	current value is sent after an expired tracking period,
		when Send at the end of period is selected
Maximum Temperature	- Disable Pulsar is an author	Enable or disable Maximum temperature tracking
<u>  Pulsar</u>	- Enable	nWell Pulsar
Maximum Temperature	- Do not send roducts in Pol	A telegram containing the maximum measured ar.pl
Send	- Send at the end of period	temperature value of the device is sent after an
		expired tracking period, when Send at the end of
		period is selected

Number	Name	Length	Usage	
17	Maximum output current during tracking period	2bytes 4bytes	The device sends the measured output current value in A or mA at the end of each period.	
18	Maximum device temperature during tracking period	2bytes	The device sends the measured device temperature value in °C at the end of each period.	ed /ell
Busload The Busload I	measurement is to monitor load	conditions. If t	the output exceeds the threshold you set, an alarm telegram	is se

# 3.4 Busload

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Busload Measurement Settings			
BusLoad Measurement	© Enable		
Busload Difference Sending	10	<b>‡</b>	96
Busload Cyclic Sending	OFF		•
BusLoad Alarm	O Enable O Disable		
Busload Alarm Threshold	80	<b>‡</b>	%
Busload Alarm Hysteresis	10	÷	96
Behaviour On BusLoad Alarm Active	Send 1		•
Behaviour On BusLoad Alarm Deactive	Send 0		•

ETS -text	Dynamic range	Comment
	[default value]	
BusLoad Measurement	- Disable - Enable	Enable or disable Busload measurement
Busload Difference Sending	1 - 100% <b>[10%]</b>	Difference between actual and last sent value which triggers the sending
Busload Cyclic Sending	OFF, 1min, 2min, 3min, 4min, 5min, 10min, 15min, 20min, 25min, 30min, 1hour, 2hours, 3hours, 4hours, 5hours, 6hours, 7hours, 8hours [OFF]	Send the latest busload value at intervals you desired
BusLoad Alarm	- Disable - Enable	Enable or disable Busload alram
Busload Alarm Threshold	1 - 100% [80%]	Select a threshold value to perform the "Behaviour On BusLoad Alarm Active"
Busload Alarm Hysteresis	1-70% Pulsar is an author of Mea	Select a hysteresis value to perform the "Behaviour On BusLoad Alarm Deactive"
Behaviour On BusLoad Alarm Active	- Nothing to do occurs in Pol- - Send O - Send 1	Select a reaction when busload is higher than the Threshold
Behaviour On BusLoad Alarm Deactive	- Nothing to do - Send O - Send 1	Select a reaction when busload is lower than a value of "Busload Alarm Threshold" - "Busload Alarm Hysteresis", e.g. 80% - 10% = 70%

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Number	Name	Length	Usage	
19	Busload measured	1bytes	The device sends the measured Busload value in	
			% at regular intervals [0-255%]	
20 Daylor	Busload alarm	1bit	When the measured value is above the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range (less than the hysteresis) a telegram with value 0 or 1 is sent.	Well nd
	Over Count", "Overload Duration ow for detailed information.	", "Short Circuit	ts Count" and "Time Load Detached" in the Faulty menu. Pl	ease refe

) E	Faulty	i
3.3	raunty	,

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Overload Count			
Overload Count Function	O Enable O Disable		
Overload Count Difference Sending	0	*	Times
Overload Count Cyclic Sending	OFF		•
Overload Duration			
Overload Duration Function	O Enable O Disable		
Overload Duration Difference Sending	0		, S
Short Circuits Count			
Short Circuits Count Function	O Enable O Disable		
Short Circuits Count Difference Sending	0	÷	Times
Short Circuits Count Cyclic Sending	OFF		•
Time Load Detached			
Time Load Detached Duration Record	○ Enable ○ Disable		

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(0	ETS -text	Dynamic range	Comment
L		[default value]	
sar	Overload Count Function	- Disable	Enable or disable Overload count function
onli	d d	- Enable	ouls puls p
	Overload Count Difference	1 - 1000	Telegram is sent when there is a count difference
	Sending	[0]	between current counting and the previous value sent.
	<b>人</b> Pulsar¹	Pulsar is an autho	This count difference can be a range of 0-1000, 0=OFF.
		Fulsar is all autile	The counter counts once when load is larger than 1.6A.
-	Overload Count Cyclic	OFF, 1min, 2min, 3min, 4min, 5min,	Send the latest busload value at intervals you desired
	Sending	10min, 15min, 20min, 25min, 30min,	and www.puisar.pr
		1hour, 2hours, 3hours, 4hours, 5hours,	
		6hours, 7hours, 8hours	
		[OFF]	
	Overload Duration Function	- Disable	Enable or disable Overload duration function
		- Enable	

	ETS -text	Dynamic range	Comment
		[default value]	
	Overload Duration	0-36,000	Telegram is sent when there is a duration difference
	Difference Sending	[0]	between current counting and the previous value sent.
			This duration difference can be a range of 0 - 36000 sec,
			0 = OFF. The counter starts counting when the device
0	_		is in an overload condition.
uthoris	Short Circuits Count	- Disable	Enable or disable Short circuits count function
	Function	- Enable	Z C
	Short Circuits Count	0-500	Telegram is sent when there is a count difference between
	Difference Sending	[0]	current counting and the previous value sent. This count
a	ゴニ		difference can be a range of 0 - 500, 0 = OFF. The counter
an an	_ 0		counts once when there is short circuit at output.
S	Short Circuits Count Cyclic	OFF, 1min, 2min, 3min, 4min, 5min,	Send the latest short circuits count value at intervals
	Sending	10min, 15min, 20min, 25min, 30min,	you desired
B	Ħ 0	1hour, 2hours, 3hours, 4hours, 5hours, 6hours, 7hours, 8hours	
=	pr	[OFF]	of the last
4	<del>-</del>	2:	
	Time Load Detached	- Disable	Enable or disable Time load detached duration record.
	Duration Record	- Enable	This function is used to count how long the loads are
× L	3		detached in conditions, such as device startup, KNX
C	ar.k		bus reset or short circuit.

ne number of overload nes verload duration	2bytes	The device sends the number counted value of overload at regular intervals.
verload duration		
	4bytes	The device sends the total duration time in overload in second
	2bytes	The device sends the number counted value of short circuit at regular intervals.
me load detached	4bytes	On activation the device sends the time counter value of load detachments
	ne number of short circuits nes me load detached	nes

Pulsar is

"Operating Time from Last Startup" in the counters menu. Please refer to tables below for detailed information. distributor

<ul><li>Enable</li><li>Disable</li></ul>		
OFF	•	
mes		
© Enable		
OFF	•	
		uthorised
		uthorised MeanWell
O Enable O Disable		Poland
0	* s	
© Enable		
0	, S	
	OFF  Disable  OFF  Enable  Disable  O  Enable  Disable  Disable  Disable	OFF  The second of the second



ETS -text	Dynamic range	Comment
	[default value]	
Bus Restart Times Count	- Disable	Enable or disable Bus restart times count.
	- Enable	0 =
Restart Times Cyclic	OFF, 1min, 2min, 3min, 4min, 5min,	Send the latest value at intervals you desired
Sending	10min, 15min, 20min, 25min, 30min,	L L
0 0	1hour, 2hours, 3hours, 4hours, 5hours,	
ΣQ	6hours, 7hours, 8hours	750
<u> </u>	[OFF]	
Startup Times Count Read	- Disable	Enable or disable Startup times count read-out
e de la company	- Enable	is
Startup Times Cyclic	OFF, 1min, 2min, 3min, 4min, 5min,	Send the latest value at intervals you desired
Sending	10min, 15min, 20min, 25min, 30min,	ST
<u></u>	1hour, 2hours, 3hours, 4hours, 5hours,	J C Si E Si
0	6hours, 7hours, 8hours	<b>—</b> 0
	[OFF]	
Total Working Time Read	- Disable	Enable or disable total working time read-out
sar.p	- Enable	Sar.p
Total Working Time	0 - 28,000,000	Difference between actual and last sent value which
Difference Sending	[0]	triggers the sending
Operating Time Duration	- Disable	Enable or disable operating time duration
	- Enable	
Operating Time	0 - 28,000,000	Difference between actual and last sent value which
Difference Sending	[0]	triggers the sending

Number	Name	Length	Usage
<b>3</b>	Total working time	4bytes	The device sends the time counted value of the total
= =			working time in s. Note: No matter Startup Times Count
_ \tilde{\cdots}			Read is enabled or not, this value is saved automatically
2 2			and cannot be cleared.
Time from last start up		4bytes	The device sends the time counted value of the time
2			elapsed since last device startup in s.
9	The number of bus restart	2bytes	The device sends the number counted value of KNX
0	times		bus restarts.
10	The number of devices	2bytes	The device sends the number counted value of device
	startup times		startups. Note: No matter Startup Times Count Read is

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# 3.7 Customized Alarm 1-4

"Customized Alarm" provides alterable measurements for users. With these adjustable measurement sources, users can easily build their preference settings for purposes.

Alarm Function	Enable	
Measurement Source	Output Current	•
Threshold Setting	1280	‡ mA
Hysteresis Setting	10	‡ mA
Alarm Type	O Limit Exceeded C Limit Underco	ut
Behaviour On Alarm Active	Send 1	•
Behaviour On Alarm Deactive	Send 0	•
Alarm Duration Difference Sending	0	* s
Alarm Counter Difference Sending	0	† Times
Alarm Counter Cyclic Sending	OFF	*

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	ETS -text	Dynamic range	Comment				
L		[default value]					
IISA	Alarm Function	- Disable - Enable	Enable or disable Alarm Function				
APL	Measurement Source	- Output Current - Device Temperature - Output Voltage	Selection of the measurement source				
	Threshold Setting	10-1600mA [1280mA]	Select a threshold value to perform the "Behavior On Alarm Active"				
ised	nd	40-95°C [ <b>70</b> °C]	rised				
autnor	Pola	28-32V [31V]	ithoi Mear Pola				
is an	Hysteresis Setting	10-1280mA [10mA]	Select a hysteresis value to perform the "Behavior On Alarm Deactive"				
		5-90°C [5°C]	ris a				
uisar		1-6V <b>[5V]</b>	ulsar				
Я	Alarm Type	- Limit Undercut - Limit Exceeded	Select threshold region either to lie above (limit exceeded) or to lie below (limit undercut) the threshold value				
A	Behavior On Alarm Active	- Nothing to do - Send O - Send 1	Select a reaction when detected value is higher/ lower than the Threshold				
	Behavior On Alarm Deactive	- Nothing to do - Send O - Send 1	Select a reaction when detected value is lower/ higher than a value of "Threshold Setting" - "Hysteresis Setting", e.g. 1280mA - 10mA = 1270mA				

The	following	chart	shows	the	objects	that	belong	to	general	setting:
-----	-----------	-------	-------	-----	---------	------	--------	----	---------	----------

S S				7
Number	Name	Length	Usage	
25, 28, 31, 34	Alarm 1, 2, 3, 4	1bit	When the measured value is above/below the threshold a telegram with value 0 or 1 is sent. When the measurement values return to the normal range(less/higher than the hysteresis) a telegram with value 0 or 1 is sent.	A Dir
26, 29, 32, 35	Count 1, 2, 3, 4	2bytes	The device sends the number counted value of threshold events for output current, output voltage or device temperature.	sed
27, 30, 33, 36	Duration 1, 2, 3, 4	4bytes	The device sends the total duration time (in second) for output current, output voltage or device temperature.	thori
F N				au
or o				an
ironmental de	eclaration information			S
s://www.meanw	rell.com//Upload/PDF/RoHS_PF rell.com//Upload/PDF/REACH_S .com//Upload/PDF/Declaration_Rol	SVHC.pdf		Julsar

# 4. Environmental declaration information

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**D 5** 

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