ebusd installieren: https://github.com/john30/ebusd/wiki/1.-Build-and-install

bus koppler von esera:

https://www.esera.de/produkte/ebus/135/1-wire-hub-platine

ich habe einen von esera und einen von der sammelbestellung auf einem raspi laufen.alternativ kann man wie man möchte oder wie die gegenheiten sind aufteilen.2 koppler braucht man auf jeden fall weil beide geräte (wärmepumpe und lüftung) auf derselben adresse laufen.

Jeder koppler kann daher nur ein signal auffangen.

ttyebus treiber installieren falls platine vorhanden: (https://forum.fhem.de/index.php?topic=104268.0) https://github.com/eBUS/ttyebus

ebusd kopieren falls man 2 koppler am laufen hat: sudo cp /lib/systemd/system/ebusd.service /lib/systemd/system/ebusd2.service sudo nano /lib/systemd/system/ebusd2.service systemctl daemon-reload sudo reboot

autostart für den ebusd2 aktivieren: sudo systemctl enable ebusd2

sudo nano /lib/systemd/system/ebusd2.service

folgende zeilen anpassen: *PIDFile=/var/run/ebusd2.pid ExecStart=/usr/bin/ebusd \$EBUSD_OPTS1*

sudo nano /etc/default/ebusd

so sehen die beiden bei mir aus: alles mit xxx ist mit den passenden daten zu ersetzen EBUSD_OPTS="--pidfile=/var/run/ebusd.pid -c /etc/ebusd -d /dev/ttyebus -p 8888 -l /var/log/ebusd.log --enabledefine --enablehex --mqtttopic=ebusd/%circuit/%name -mqtthost=xxx --mqttport=1883 --mqttuser=xxx --mqttpass=xxx --accesslevel=* -scanconfig=full --mqttjson" EBUSD_OPTS1="--pidfile=/var/run/ebusd2.pid -c /etc/ebusd -d /dev/ttyUSB0 -p 8889 -l /var/log/ebusd2.log --enabledefine --enablehex --mqtttopic=ebusd2/%circuit/%name -mqtthost=xxx --mqttport=1883 --mqttuser=xxx --mqttpass=xxx --accesslevel=* -scanconfig=full --mqttjson"

sudo service ebusd status
bzw.
sudo service ebusd2 status
sollten jetzt ohne fehlermeldungen funktionieren

[pi@raspberrypi:~ \$ sudo service ebusd status ebusd.service - ebusd, the daemon for communication with eBUS heating systems. Loaded: loaded (/lib/systemd/system/ebusd.service; enabled; vendor preset: enabled) Active: active (running) since Sat 2020-10-31 12:32:28 CET; 20min ago Process: 694 ExecStart=/usr/bin/ebusd \$EBUSD_OPTS (code=exited, status=0/SUCCESS) Main PID: 695 (ebusd) Tasks: 5 (limit: 2200) Memory: 1.4M CGroup: /system.slice/ebusd.service └─695 /usr/bin/ebusd --lograwdatafile=/var/log/ebusraw.log --pidfile=/var/run/ebusd.pid -c /etc, Oct 31 12:32:28 raspberrypi systemd[1]: Starting ebusd, the daemon for communication with eBUS heating systemd Oct 31 12:32:28 raspberrypi systemd[1]: Started ebusd, the daemon for communication with eBUS heating system [pi@raspberrypi:~ \$ sudo service ebusd2 status ebusd2.service - ebusd, the daemon for communication with eBUS heating systems. Loaded: loaded (/lib/systemd/system/ebusd2.service; enabled; vendor preset: enabled) Active: active (running) since Sat 2020-10-31 12:31:58 CET; 21min ago Process: 671 ExecStart=/usr/bin/ebusd \$EBUSD_OPTS1 (code=exited, status=0/SUCCESS) Main PID: 672 (ebusd) Tasks: 5 (limit: 2200) Memory: 1.1M CGroup: /system.slice/ebusd2.service └─672 /usr/bin/ebusd --pidfile=/var/run/ebusd2.pid -c /etc/ebusd -d /dev/ttyUSB0 -p 8889 -l /vax

Oct 31 12:31:58 raspberrypi systemd[1]: Starting ebusd, the daemon for communication with eBUS heating systemd[1]: Started ebusd, the daemon for communication with eBUS heating systemd pi@raspberrypi:~ \$

ebusctl -p 8888 info bzw. ebusctl -p 8889 info ebenfalls

[pi@raspberrypi:~ \$ ebusctl -p 8888 info version: ebusd 3.4.v3.3-51-g57eae05 update check: revision v3.4 available, broadcast.csv: different version available, vaillant/08.hmu.csv: dif access: * signal: acquired symbol rate: 48 max symbol rate: 127 min arbitration micros: 8 max arbitration micros: 46 min symbol latency: 4 max symbol latency: 4 reconnects: 0 masters: 4 messages: 70 conditional: 0 poll: 0 update: 11 address 03: master #11 address 08: slave #11, scanned "MF=Vaillant;ID=HMU01;SW=0300;HW=8802", loaded "vaillant/08.hmu.csv" address 10: master #2 address 31: master #8, ebusd address 36: slave #8, ebusd address 71: master #9 address 76: slave #9, scanned "MF=Vaillant;ID=VWZIO;SW=0107;HW=0103" address e3: slave, scanned "MF=Vaillant;ID=FMU00;SW=0202;HW=6502" address e8: slave, scanned "MF=Vaillant;ID=FMU00;SW=0202;HW=6502" [pi@raspberrypi:~ \$ ebusctl -p 8889 info version: ebusd 3.4.v3.3-51-g57eae05 update check: revision v3.4 available, broadcast.csv: different version available, vaillant/broadcast.csv: access: * signal: acquired symbol rate: 23 max symbol rate: 58 min arbitration micros: 730 max arbitration micros: 1029 min symbol latency: 5 max symbol latency: 10 reconnects: 0 masters: 3 messages: 49 conditional: 0 poll: 0 update: 9 address 03: master #11 address 08: slave #11, scanned "MF=Vaillant;ID=recoV;SW=0223;HW=0203", loaded "vaillant/08.recov.csv" address 31: master #8, ebusd address 33: master #13 address 36: slave #8, ebusd address 38: slave #13, scanned "MF=Vaillant;ID=V32;SW=0117;HW=9802"

recovair file per hand erstellen falls noch nicht automatisch im system: cd /etc/ebusd cd vaillant dir sudo nano 08.recov.csv

folgenden inhalt kopieren:

type (r[1-9];w;u)",circuit,name,[comment],[QQ],ZZ,PBSB,[ID],field1,part (m/s),datatypes/templates,divider/values,unit,comment #,recov,recoVair 360/4,,,,,,, # ##### Generell #####,,,,,, *r,,,,,B513,,,,IGN:2,,, *w,,,,,,B509,,,,,,

r,recov,IntensTag,Lueftungsintensitaet Tag auslesen,,,,048a03,HEX:15,,UIN,,,Werte 1-6 r,recov,IntensNacht,Lueftungsintensitaet Nacht auslesen,,,,048b03,HEX:15,,UIN,,,Werte 1-6 r,recov,WaermeRueck,Waermerueckgewinnung auslesen,,,,048c03,HEX:15,,UIN,0=auto;1=on;2=off,,Werte auto/on/off w,recov,IntensTag,Lueftungsintensitaet Tag setzen,,,,0e8a03,,,UCH,,,Werte 1-6 w,recov,IntensNacht,Lueftungsintensitaet Nacht setzen,,,,0e8b03,,,UCH,,,Werte 1-6 w,recov,HeatRecovery,Waermerueckgewinnung,,,,0e8c03,,,UCH,,,Werte 0=auto;1=on;2=off w,recov,SetTag,Lueftung Tag setzen,,,B522,000200FFFF,,,,,, w,recov,SetNacht,Lueftung Nacht setzen,,,B522,000100FFFF,,,,,, w,recov,SetIntensiv,Stosslueften aktivieren,,,B522,000300FFFF,,,,,, w,recov,SetIntensivAb,Stosslueften aktivieren,,,B522,000000FFFF,,,,,, w,recov,SetWunschTemp,Wunschtemperatur,,,,0e140e,,,temp,,,Wert ändert sich erst nach restart von EBUSD? # ##### Read #####,,,,,,,,,,,,, *r,,,,,,B509,,,,IGN:2,,, r,recov,BypassPosition,Position der Bypass-Klappe,,,,290b0e,,,UIN,10,%, r,recov,Frostschutz,Position der Bypass-Klappe,,,,29f10c,,,onoff,,, r,recov,WunschTemp,Wunschtemperatur,,,,29140e,,,temp,,°C, r,recov,Filterwechsel,Drehzahl Zuluft,,,,29360e,,,UIN,,Tage, r,recov,Volumenstrom,Drehzahl Zuluft,,,,29030e,,,UIN,,m3/h, r,recov,Zuluft,Drehzahl,,,,29FC0D,,,UIN,,rpm, r,recov,TempZuluft,Temperatur Zuluft,,,,29b30d,,,temp,,°C, r,recov,TempAbluft,Temperatur Abluft,,,,29b40d,,,temp,,°C, r,recov,TempAussenluft,Temperatur Aussenluft,,,,290c0e,,,temp,,°C, r,recov,TempFortluft,Temperatur Fortluft,,,,290d0e,,,temp,,°C, r,recov,FeutigkeitAbluft,FeuchtigkeitAbluft,,,,298503,,,percent,,%, r,recov,ErtragHeute,Ertrag Heute,,,,29560E,,,UIN,,kw/h, r,recov,ErtragVortag,Ertrag Vortag,,,,29570E,,,UIN,,kw/h, r,recov,ErtragMonat,Ertrag Monat,,,,29580E,,,,UIN,,kw/h, r,recov,ErtragJahr,Ertrag Jahr,,,,29590E,,,UIN,,kw/h, r,recov,ErtragGesamt,Ertrag Gesamt,,,,295A0E,,,UIN,,kw/h,

php server installieren: sudo apt-get install php wieder ins root verzeichnis wechseln cd /var/www/html/ php file erstellen (fungiert als schnittstelle zu loxone) sudo nano ebusd.php

<?php

Adresse der Recovair im eBus - Standard: 08
IP des Rechners mit der eBus-Installation - 10.0.1.24 ersetzen!
Gewählter Port in eBus für Telnet - Standard: 8888

\$ebusIP = "10.0.1.24";

```
$port = $_GET["port"];
$mode = $ GET["mode"];
$value = $_GET["value"];
$set = $_GET["set"];
$fp = fsockopen($ebusIP, $port, $errno, $errstr, 30);
if (!$fp) {
    echo "$errstr ($errno)<br />\n"; }
else {
    switch($mode)
{
case ("read"):
$out = "r -f ".$value."\r\n"; fwrite($fp, $out);
$result = fgets($fp, 128);
//($result == 00)
echo "value:".$result;
break;
case ("hex"):
$out = "hex ".$value."\r\n"; fwrite($fp, $out);
$result = fgets($fp, 128);
echo "HEX:", substr($result,2,1);
break;
case ("write700"):
$out= "w -c 700 ".$value." ".$set."\r\n"; fwrite($fp, $out);
$result = fgets($fp, 128);
//if ($result == 00)
echo "700:", $result;
break;
case ("writehmu"):
$out= "w -c hmu ".$value." ".$set."\r\n"; fwrite($fp, $out);
$result = fgets($fp, 128);
//if ($result == 00)
echo "hmu:", $result;
break;
case ("writerecov"):
$out= "w -c recov ".$value." ".$set."\r\n"; fwrite($fp, $out);
$result = fgets($fp, 128);
//if ($result == 00)
echo "recov:", $result;
break;
case ("setmode"):
$out= "w -c hmu SetModeOverride "."0;11.0;-;-;1;1;1;0;0;1"."\r\n"; fwrite($fp, $out);
```

```
$result = fgets($fp, 128);
//if ($result == 00)
echo "setmode:", $result;
break;
```

```
}
fclose($fp);
}
```

?>

Jetzt kann man das schon mal im browser austesten: http://10.0.1.24/ebusd.php?port=8888&mode=read&value=status01

um das ganze via mqtt verwenden zu können verwende ich loxberry https://www.loxwiki.eu/display/LOXBERRY/LoxBerry meine einstellungen siehe bilder:

	home MQTT Gateway v1.1.4				
Type sending the data to Miniserver	Set virtual inpute via HTTP webservice (recommended)				
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	Send data via UDP				
	See the Wiki for details how to configure your inputs on your Miniserver.				
Receiving Miniserver	Home (10.0.1.77)				
Miniserver UDP port	11883				
Default UDP port is 11883. If UDP is enabled, data from	n the broker are sent to this udp port on the Miniserver.				
Data transformations	Convert booleans to 1 and 0				
	Z Expand JSON data				
Miniserver t	0 MQTT				
Gateway LIDP in-port	11004				
Default UDP IN-port on LoxBerry is 11884. Publish dat	I noo-				
MQTT Broke	r				
Use local Mosquitto broker	2 Use the local Mosquitto MQTT broker (default: enabled)				
	If enabled, changes of the credentials below will change your local MQTT broker credentials. If disabled, it only changes the credentials used by the Gateway to connect to your broker.				
MQTT Broker address	localhost:1883				
Default is localhost: 1883 for the local Mosquitto insta	allation. Experienced users may use a remote MQTT broker. Configure MQTT devices to connect to the real hostname (usually loxberry) and port.				

		none mart dateway vr		
Settings	Subscriptions	Conversions	Incoming overview	
MQTT Subs	scriptions			
Subscriptions are the topics of MQTT	devices that are relayed to the Miniserver. A	# sign symbols a joker in MQTT. Use exactly the to	pic(s) provided by the device vendor.	
Advanced feature: Send specific subscriptions t page is used.	to specific Miniservers - after the subscription, use a pip	be I symbol followed by a list of Miniserver numbers (from the Min	iserver widget), e.g. shellies/# 2 or shellies/# 2,3. Withou	ut pipe, the d
One subscription topic per line. For Shelly devic shellies/#	ces, use shellies/#			
	nuki/# ebusd/#			
	08/# bex/#			
	rcvr/#			
	roomba/#			
	ebusd2/#			
Subscriptions defined by other p	lugins			
	Save and Apply		Restart	
	Save and Apply	AOTT Gateway running (PID1877) Mosquitto runn	Restart	
	Save and Apply	//QTT Gateway running (PID1877) I Mosquitto runn	Restart ing (PID812)	
	Save and Apply	AQTT Gateway running (PID1877) I Mosquitto runn home MQTT Gateway v1.1.4	Restart	
Settings	Save and Apply	AQTT Gateway running (PID1877) I Mosquitto runn home MQTT Gateway v1.1.4 Conversions	Restart ing (PID812) Incoming overview	
Settings	Save and Apply	AQTT Gateway running (PID1877) I Mosquitto runn home MQTT Gateway v1.1.4 Conversions	Restart ing (PID812) Incoming overview	
Settings	Save and Apply	AQTT Gateway running (PID1877) I Mosquitto runn home MQTT Gateway v1.1.4 Conversions	Restart ing (PID812) Incoming overview	
settings Text-to-Val	Save and Apply	MQTT Gateway running (PID1877) Mosquitto runn home MQTT Gateway v1.1.4 Conversions	Restart ing (PID812) Incoming overview	
Settings Text-to-Val MQTT devices often are sending strings an be evaluated e.g. with a Status bloc	Save and Apply N Subscriptions UE CONVERSIO Is that Loxone unfortunately cannot handle. In ck.	MQTT Gateway running (PID1877) Mosquitto runn home MQTT Gateway v1.1.4 Conversions	Restart ing (PID812) Incoming overview You can assign values to incoming strings, that value	es are se
Settings Text-to-Val MQTT devices often are sending strings can be evaluated e.g. with a Status bloc 3coleans (on, off etc.) are already conv fext-to-Value conversion	Save and Apply N Subscriptions UE CONVERSIO Is that Loxone unfortunately cannot handle. In ck. verted, if you have 'Boolean conversion' enabl off=0	AQTT Gateway running (PID1877) I Mosquitto runn home MQTT Gateway v1.1.4 Conversions O IN S In this field you can create text-to-value conversions. Vied.	Restart ing (PID812) Incoming overview You can assign values to incoming strings, that value	es are se
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		home MQTT Gateway v1.1.4		
Settings	Subscriptions	Conversions	Incoming overview	Logfile
.ast transmiss	sions to Mi	niserver		
is page lists the transmissions via the MQTT Ga u can copy and paste the 'Virtual Input' names fo	teway to the Miniserver in the last 24 h or HTTP transmissions, or create comm	ours. It is refreshed automatically on-the-fly (a nand recognitions from the UDP messages.	s long as you have text selected, updating stops).	
Show advanced table information				
HTTP Virtual Inputs (122 entries)				
Q ebusd				
Miniserver Virtual Input	Last value			Last submis
ebusd2_global_running	1			31.10.2020 1
ebusd2_global_signal	1			31.10.2020 1
ebusd2_global_updatecheck	"revision v3.4 available, broad	cast.csv: different version available, vaillant/br	oadcast.csv: different version available"	31.10.2020 1
ebusd2_global_uptime	3696			31.10.2020 14
ebusd2_global_version	"ebusd 3.4.v3.3-51-g57eae05			31.10.2020 13
ebusd_700_HwcSFMode_sfmode_value	6			31.10.2020 14
ebusd_700_HwcStorageTemp_tempv_value	52.5			31.10.2020 14
ebusd_700_HwcTempDesired_tempv_value	60			31.10.2020 14
ebusd_700_WaterPressure_pressv_value	1.6			31.10.2020 14
ebusd_broadcast_outsidetemp_temp2_value	15.25			31.10.2020 14
ebusd_broadcast_vdatetime_date_value	31.10.2020			31.10.2020 14
should be adapt to detailing time to be	14:12:02			21 10 2020 1

das ganz in loxone einbinden:

einen virtuellen eingang bzw. ausgang anlegen mit der richtigen ip adresse vom raspi

E	enschaft	Wert	T		
Ξ	Allgemein				
	Bezeichnung	ebusd set			
	Beschreibung				
	Hinweis-Text	Bearbeiten			
	Objekttyp	Virtueller Ausgang			
	Anschluss	VQ9			
	Raum	Nicht zugeordnet			
Ξ	Einstellungen				
	Adresse	http://10.0.1.24			
	Verbindung nach Senden sch				
	Trennzeichen	;			
	Befehl bei Verbindungsaufbau				
+	Logging/Mail/Call/Track				

den passenden befehl erstellen:

in meinem fall die speicherladung warmwasser

dasselbe prinzip auch bei der lüftung anwenden (port 8889)

E	West		
Eigenschaft	went		
⊡ Allgemein		^	
Hinweis- lext	Bearbeiten	- 11	Spaicharladung Warmusa
Objekttyp	Ausgangsreferenz	- 11	Radiotasten
Objektfarbe	eccece		II Zentral Q1 VQ Spetcherizaung an i)
Einstellungen		- 11	2 Wasser Q2 VQ Spectretading au i)
Ausgang	Speicherladung an (Home)		
Referenziertes Objekt			
Allgemein		- 11	Verzoger
Bezeichnung	Speicherladung an	- 11	Warmwasser
Beschreibung			Virtueller Status
Hinweis-Text	Bearbeiten		(VHI3 VI A Zentral/Wasser
Objekttyp	Virtueller Ausgang Befehl		Sustem Druck Vaillant
Statistik			Virtueller Status
Kategorie	Nicht zugeördnet		VHI4 VI AI Zentral/Heizung
Raum	Nicht zugeordnet		
Visualisierung			Warmwasser O
Verwenden			All
Visualisierungskennwort			(i ebusd_700_Hwc0# VI Al2 Wasser
Bewertung	*****		2000
Berechtigungen			Temperaturfühler 🕕
Berechtigungen verwalten	Bearbeiten		Virtueller Status
Berechtigte Benutzer / Gruppen	Bearbeiten		A second proceeding of the second second
Einstellungen			
Befehl bei EIN	/ebusd.php?port=8888&cmode=write700&cvalue=hwcSFMode&set=6\r		
HTTP-Erweiterung bei EIN			
HTTP-Post-Befehl bei EIN			
HTTP Methode bei EIN	GET		+ HwcStorageTemp VI
Befehl bei AUS			WaterPressure VI
HTTP-Erweiterung bei AUS			Verbrauchszähler
HTTP-Post-Befehl bei AUS			
HTTP Methode bei AUS	GET		E AQa
HTTP-Antwort speichern			
Erste Wiederholung [s]	0		
Abstand Wiederholung [s]	0		
Als Diaitalausaana verwenden		~	

Der baustein sieht bei mir so aus:

Sta	itus be	arbeiten												
I	V1	Wert	I	V2	Wert	I	V3	Wert	I	V4	Wert	Symbol	Statustext	Sta
AI2	1	6	-	==	0	-		0	-		0	eiβ Heiβ	<v1.1> °C</v1.1>	0
AI1	>	50	-	==	0	-	==	0	-		0	Voli	<v1.1> °C</v1.1>	0
AI1	<=	50	AI1	>=	25	-	==	0	-	==	0	Mitte	<v1.1> °C</v1.1>	0
AI1	<	25	AI1	!=	0	-	==	0	-	==	0	Leer	<v1.1> °C</v1.1>	0
AI1	==	0	-	==	0	-	==	0	-	==	0	🛕 Warnung	<v1.1> °C</v1.1>	0
-	==	0	-	==	0	-	==	0	-	==	0	Nicht zugeordnet		0
Sobald keine B Alle Be Zahl-Ve != (ung Text-V !: (beg	eine Be Bedingung dingung ergleich gleich) ergleich innt nic	edingung zu ng angegeb yen sind UN e: == (gleid ne: == (gleid ht mit)	utrifft, w ben ist, c ID-verkn ch), > (c ich), != (ird sie v dann tri üpft. größer), (ungleic	rerwendet fft sie imme , >= (größe h), *= (en	(Reihent er zu, un er gleich thält), !	folge de nd sollte n), < (kle * (entha	r Texte ist folglich gar einer), <= (ilt nicht), ::	wichtig). nz unten (kleiner g = (beginr	Wenn sein. gleich), nt mit),	Textfeld <v1> = <v1.2> <v2.2*1 <v2.2 1<br=""><vn> = <v1.t> Fehlerha</v1.t></vn></v2.2></v2.2*1 </v1.2></v1>	er: <v1> bis <v4> entspre Wert AI1 ohne Nachkomm = Wert AI1 mit 2 Nachkom 100> = Wert AI2 mit 2 Nach 00> = Wert AI2 mit 2 Nach 00> = Wert AI2 mit 2 Nach eigener Objektname = Zeitpunkt der Änderung v afte Texte werden rot ange</v4></v1>	echen den Werten von AI1 bis AI4 astellen oder Text mastellen hkommastellen mal 100 nkommastellen durch 100 von AI1, <v1.d> = EIB Datum AI ezeigt!</v1.d>	1, <v1.m> = E</v1.m>
Jalo	ousie-Be	eispiel laden	1	Werte	Beispiel lac	len	Te	xt-Beispiel	laden				ОК	Abb

Loxone visulisierung:

HOME WA	SSER	ERTUNG				
Zentral Warm 52.5 °C	• Wasser wasser C	Zentral • Wasser Speicherladung	•			
WERKZE	EUGRAUM					
•	Wasser Verbro 0,0 Liter/min	auch Aktuell		•	Wasser Verbrauch Gesamt 249,503 m3	
•	Wasser Verbro 0,0 Liter	auch Heute		•	Wasser Verbrauch Jahr 239,503 m3	
ZENTRA	L					
Q	Speicherladur -	ng Warmwasser	••	Ł	Warmwasser 52,5 °C	
6	Warmwasser 52.5 °C					

Die grafische umsetzung bei der lüftung habe ich noch nicht umgesetzt. Wird nachgereicht … 0

ps:

sämtliche geräte im netzwerk müssen immer eine fixe adresse zugewiesen bekommen. Am besten die ip adresse im router über die mac adresse fix zuweisen.

viel spaß bei der umstzung!!

unbedingt ein backup der s
d karte machen sobald das system am laufen ist. mir ist eine nach einem stroma
usfall schon kaputt gegangen.