############# START OF	PORT SPECIFICATION DEFINITIONS ####################################
# index	Sets the index for which device you are communicating with
#	It is advised to use a separate instance of gmodbus with a
н Н	separate gmodbug specifile for each device you're communicating
# #	separate gmoubus spec file for each device you re communicating
# #	WILLI. If you aposify multiple deviage A separate instance of smedbus shild
#	ii you specily multiple devices, A separate instance of gmodbus_child
#	will be created for each device.
# modbug glotto	If vaina a garial device, this is the serial next used to some unisots
# modbus stave	ii using a serial device, this is the serial port used to communicate
# device interface	with the device in the /dev directory. This will normally be one of
#	the onboard serial ports such as /dev/serl, or if an expansion card
#	such as a rocketport device is used, this could be /dev/ttyR0
#	If communicating with a device over tcp, you must specify the IP address
#	of the slave device and the port number. Default port is 502.
# endian	Sets whether or not the device is little (intel) or big (motorolla)
# serial type	sets RS485 mode. Default is RS232. If you're using
#	an RS485 device, you must enter the RS485 entry listed above.
#	This entry is only REQUIRED when communicating with an RS485 device.
#	RS232 has the capability to configure the port. Following the device port, use commas to
#	separate the baud rate, data bits, stop bits and parity the default is ,9600,8,1,N.
#	If you are using the default settings you do not have to include configuration options.
# timeout	This indicates the time in milliseconds a read/write will try to process before giving up.
#	This only works with serial communication and not TCP. Default is 0 for no timeout
#	This entry is optional, the recommendation is to use the default.
# polldelay	This indicates the delay in milliseconds between two Modbus read/writes
#	This only works with serial communication and not TCP. Default is 0 for no poll delay
π #	This only works with serial commandation is to use the default
" ############### END OF PO	RT SPECIFICATION DEFINITIONS ####################################
# Modbus S	lave serial
# index device i	nterface endianness type timeout polldelay
<pre># RS485 serial example 3</pre>	below
0 /dev/ser	1 little RS485 100 100
<pre># RS232 serial example 1 /dev/ser</pre>	below. Enter baud rate, data bits, stop bits and partiy after the device port separated with commas.
<pre>#RS232 serial example w 2 /dev/ser</pre>	ith device using the default configuration of 9600 baud, 8 data bits, 1 stop bit and parity of none(N)
# TCP example below. S	pecify port(IP address) then port with a semi-colon inbetween. Default port is 502
3 192.168.	1.254:502 big
\$	
H CVELAY Variable	This specifies the CyEley variable that will be written to The variable must
# CYFIEX VALIADIE	THIS SPECIFIES THE CYFTEX VALIANTE THAT WITT DE WITCLEH LO. THE VALIANTE MUST
# name	arready exist.
# CyFlex Units	Units that will be applied to the CyFlex variable

ity of none(N).

# Modbus Units Units of the variable as it is being transmitted by the modbus device. If the units are of the same type, the gmodbus application will perform the unit conversion. You must make sure the units are of the same type Ħ (for example, rpm to rad/s and not deg\_c to rpm) ± as the application will incorrectly perform a units conversion if they # are not. # input/output See explanation below: # Some devices get both inputs and outputs from # what is normally considered the 'output area' for a modbus device. # To support this unique situation, place an 'i0' in the input/output column # in the spec file. Normally only a 'i' or an 'o' would be placed in this # column. ± i -> Read from Input Register table 3:0000 # o -> Write to Hold Register table 4:0000 i0 -> Read From Hold Register table 4:0000 # # The exceptions are discretes (boolean) whichare as follows: # inputs (i) -> table 1:0000 # outputs (o) -> table 0:0000 and read output coils (i0) -> table 0:0000. # The rate modbus will read/write to the CyFlex variable. # ms update rate If a polldelay is specified to be a faster update rate (smaller ms interval) # than the ms update rate, the polldelay rate will be used. If the polldelay # is not specified, the ms update rate is used. # slave index This correlates to the index of the device specified in the port configuration # modbus address The address of the device you're communicating with. There can be up to 255 devices on the same network. # This is the modbus register for the variable being read from or written to. # Register This can usually be found in the device documentation. # b = boolean# type # s = shortl = long# # f = float# scale slope Multiplier which will be applied to the variable being read or written to. # scale offset Offset which will be applied to the variable being read or written to. # CyFlex Variable, CyFlex Units, Modbus Units, input/output, ms update rate, slave index, Mbus address, Register, type, scale slope, scale offset PAM unit i,i0,o or o0 2 - 10000-n 1 - 255# name PAM unit 1 b,s,l,f # Sample inputs from the read register table below i 0 1 1 1 spd1 rpm 100 rpm i 1 2 100 0 1 spd2 rpm rpm 1 3 spd3 rpm i 100 0 1 rpm i 1 ٦ 100 0 4 spd4 rpm rpm

0. 10. Ο. 0.1 0.000001 0. 0.1 0. 0.1 0.

av_freq	hz	hz	iO	1000	1	1	16385	f
av_ln_v12	volt	volt	iO	1000	1	1	16395	f
av_phase_i1	amp	amp	iO	1000	1	1	16403	f
av_phase_pwr_a	kw	kw	iO	1000	1	1	16413	f

# Sample outputs from the write to hold register table below

#	ASSET Variable,	Asset Units,	Modbus Units,	input/output,	ms update rate,	slave index,	Mbus address,	Register,	type,	scale slope,	scale offset
#	name	PAM unit	PAM unit	i,i0,o or o0	2-1000	0-n	1-255	1	b,s,l,	f 10.	0.
	MMlResetInventory	none	none	0	100	2	1	4	b	1.0	0.0

\$

1.0	0.0
1.0	0.0
240.0	0.0
1.0	0.0