SenNet Gateway Modbus *LongNet* RS232/RS485

Interfaz serie Modbus *LongNet*

Contenido

SenNet Gateway Modbus *LongNet* RS232 ó RS485 es un dispositivo que actúa como coordinador de una red *LongNet*.
Este equipo es el punto de enlace con la red *LongNet* con salida bajo el estándar RS232 ó RS485. A través del protocolo Modbus RTU se pueden acceder al último dato recibido de las remotas *LongNet*, a un máximo de 20 dispositivos por tipo.

- **Pulse Counter LongNet**: contador de impulsos.
- **TH LongNet**: medición de temperatura y humedad relativa.
- **CO2-TH LongNet**: medición de niveles de CO2, temperatura y humedad relativa.

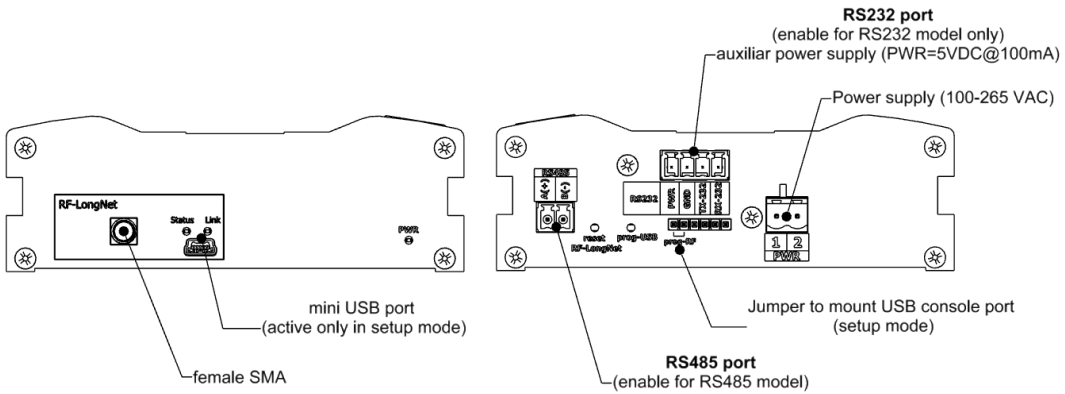
Además realiza la función de pasarela transparente serie con otro Gateway *LongNet* RS232 o RS485 y los analizadores eléctricos Compact Meter *LongNet* y Easy Meter *LongNet*.

Conexionado

La alimentación del dispositivo se realiza a través de una entrada alterna en un rango 100-265VAC, para mayor seguridad se aconseja utilizar a su entrada una protección.

Alimentación	100-265VAC
Consumo	2W

La versión RS232 posee una salida opcional de 5v@100mA para poder alimentar al periférico con el que se comunicará, principalmente una sonda óptica.



Buffer recepción / transmisión

Buffer máximo de recepción serie = 512 bytes
Buffer máximo para transmisión vía *LongNet* = 120 bytes

Parámetros puerto salida

Velocidad: 1200, 9600, 19200, 38400, 115200 baudios
Paridad: No, Par, Impar

RF LongNet

Red de radio de largo alcance, por sus características de emisión en banda estrecha posee una gran sensibilidad e inmunidad al ruido / interferencias, lo que le transfiere una cobertura superior.

La arquitectura RF creada es de tipo estrella con posibilidad de utilizar repetidores para incrementar el alcance.
Las remotas LongNet que pueden utilizarse son:

Remotas	Función	Alimentación
TH-LN	Temperatura – humedad	Batería
PC-LN	Contador pulsos	Batería / 100-265VAC
CO2-LN	Medida nivel CO2	100-265VAC
Gateway-LN-RS485	Enlace transparente RS485	100-265VAC
Gateway-LN-RS232	Enlace transparente RS232	100-265VAC
Dual *LongNet*	Repetidor *LongNet*	100-265VAC
CM LN	Analizador 3 medidas trifásicas	100-265VAC

Versiones hardware disponibles

Versiones RF	Banda 433	Banda 868
Frecuencia	433.99MHZ	869.2248MHz (EU versión) 915MHz (US versión)
TX potencia	10mW	25mW
RX sensibilidad	-129dBm @ 300bps	-128dBm @ 300bps
Mínimo ancho canalización	6.25KHz	
Modulaciones	2-FSK / 2-GFSK / 4-FSK / 4GFSK	
Velocidad en el aire	300bps 50kbps	
Máximo buffer RF	125 bytes	

Por defecto todo el material entregado estará en la configuración para obtener la máxima cobertura:

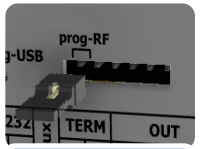
Por defecto configuración	300bps @ 2FSK @ 6.25KHz

Para tener acceso a la consola serie avanzada de configuración, insertar un jumper en 'Prog_RF', realizar un reset y conectar un cable mini-USB. (9600 baudios).

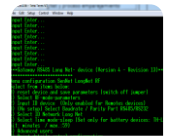
Proceso emparejamiento Remota *LongNet*: para realizar este proceso se puede hacer a través de 2 vías:

- **Menú**: a través del menú que monta en la consola del puerto mini-USB, para ello hay que insertar el jumper en la posición que se menciona más adelante, y tomar nota de los ID_Network por defecto que están definidos en las etiquetas de los productos, coincide con los 6 últimos dígitos del Serial Number.
- **Emparejamiento automático**, explicado en la siguiente tabla:

Datalogger Gateway Modbus Dual LongNet (ROL=Coordinador)	Acceso a configuracion LongNet y proceso emparejamiento



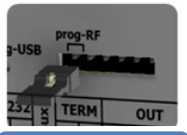
1er paso LongNet
- Insertar jumper (serie 100)
- Switch prog-RF a '1' (serie 200)



30 segundos para...
- Acceder a modo consola y poder cambiar parametros de LongNet

Transcurridos 30 segundos
- envía una *baliza de emparejamiento* a los equipos remotos que están en modo escucha

Remota LongNet (ROL=Remoto)	Emparejamiento de un equipo remoto



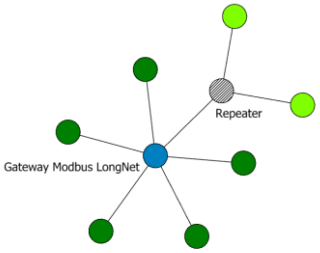
1er paso Remota
- Insertar jumper
- Esperar 30 segundos

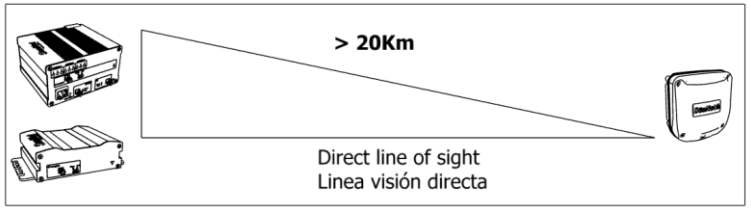
Periodo 20 seg para recibir *baliza emparejamiento*

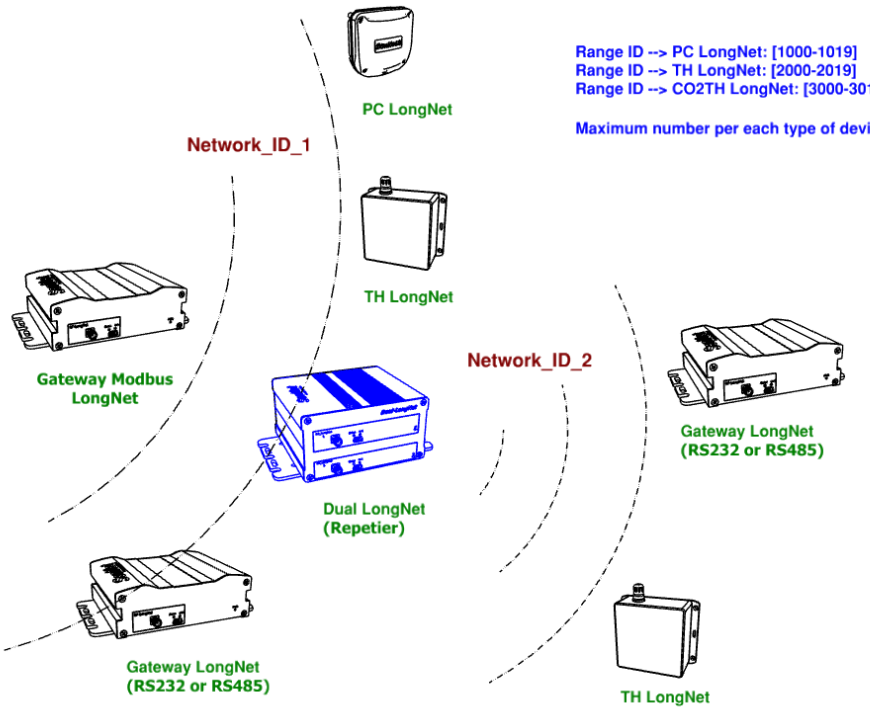
Parpadeo continuado 5 segundos
- Emparejado !!!

Nota:
Después de cada proceso de emparejamiento realizar un reinicio a los equipos, tanto datalogger como remota.

Tipo de arquitectura





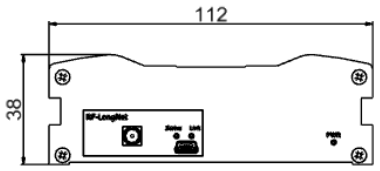


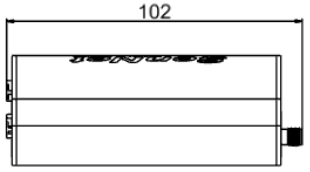
Range ID --> PC LongNet: [1000-1019]
Range ID --> TH LongNet: [2000-2019]
Range ID --> CO2TH LongNet: [3000-3019]

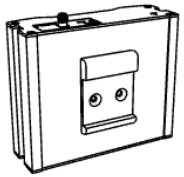
Maximum number per each type of device 20

Envolvente

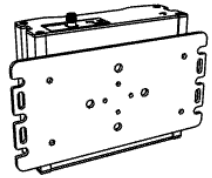
Características ambientales	
Temperatura trabajo	-20ºC...+60ºC
Temperatura de almacenamiento	-20ºC...+75ºC
Carcasa	
Dimensiones	112 x 38 x 102 mm
Montaje	Carril DIN (DIN46277) Panel
Grado de protección	IP30
Material	Aluminio – AL6063







Rail DIN support



Wall mount

Garantía

Satel Spain garantiza sus productos contra todo defecto de fabricación por un periodo de 1 año.

No se aceptará ninguna devolución de material ni se reparará ningún equipo si no viene acompañado de un informe (RMA) indicando el defecto observado o los motivos de la devolución.
La garantía quedará sin efecto si el equipo ha sufrido "mal uso" o no se han seguido las instrucciones de almacenaje, instalación o mantenimiento de este manual. Se define "mal uso" como cualquier situación de empleo o almacenaje contraria al Código Eléctrico Nacional o que supere los límites indicados en este manual.
Satel Spain declina toda responsabilidad por los posibles daños, en el equipo o en otras partes de las instalaciones y no cubrirá las posibles penalizaciones derivadas de una posible avería, mala instalación o "mal uso" del equipo. En consecuencia, la garantía no es aplicable a las averías producidas en los siguientes casos.

- Por sobretensiones y/o perturbaciones eléctricas en el suministro.
- Por agua, si el producto no tiene la clasificación IP apropiada.
- Por exponer al equipo a temperaturas extremas, que superen el límite de temperatura de funcionamiento o almacenaje.
- Por una modificación del producto por parte del cliente sin previo aviso a Satel Spain.

Frente a posibles erratas de la presente hoja técnica, manténgala actualizada.

Configuración puerto serie RS232 / RS485 : 9600 baudios – 8N1
16 bits cada registro (2 bytes)

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00000	00001	Pulse Counter	1000	Counter 1	32 bits unsigned	pulse
00002	00003			Counter 2	32 bits unsigned	pulse
00004	00005			RSSI level	Float inverse	dBm
00006	00007			Number connections	32 bits unsigned	connections
00008	00009			Seconds last data received	32 bits unsigned	seconds
00010	00011	Pulse Counter	1001	Counter 1	32 bits unsigned	pulse
00012	00013			Counter 2	32 bits unsigned	pulse
00014	00015			RSSI level	Float inverse	dBm
00016	00017			Number connections	32 bits unsigned	connections
00018	00019			Seconds last data received	32 bits unsigned	seconds
00020	00021	Pulse Counter	1002	Counter 1	32 bits unsigned	pulse
00022	00023			Counter 2	32 bits unsigned	pulse
00024	00025			RSSI level	Float inverse	dBm
00026	00027			Number connections	32 bits unsigned	connections
00028	00029			Seconds last data received	32 bits unsigned	seconds
00030	00031	Pulse Counter	1003	Counter 1	32 bits unsigned	pulse
00032	00033			Counter 2	32 bits unsigned	pulse
00034	00035			RSSI level	Float inverse	dBm
00036	00037			Number connections	32 bits unsigned	connections
00038	00039			Seconds last data received	32 bits unsigned	seconds
00040	00041	Pulse Counter	1004	Counter 1	32 bits unsigned	pulse
00042	00043			Counter 2	32 bits unsigned	pulse
00044	00045			RSSI level	Float inverse	dBm
00046	00047			Number connections	32 bits unsigned	connections
00048	00049			Seconds last data received	32 bits unsigned	seconds
00050	00051	Pulse Counter	1005	Counter 1	32 bits unsigned	pulse
00052	00053			Counter 2	32 bits unsigned	pulse
00054	00055			RSSI level	Float inverse	dBm
00056	00057			Number connections	32 bits unsigned	connections
00058	00059			Seconds last data received	32 bits unsigned	seconds
00060	00061	Pulse Counter	1006	Counter 1	32 bits unsigned	pulse
00062	00063			Counter 2	32 bits unsigned	pulse
00064	00065			RSSI level	Float inverse	dBm
00066	00067			Number connections	32 bits unsigned	connections
00068	00069			Seconds last data received	32 bits unsigned	seconds
00070	00071	Pulse Counter	1007	Counter 1	32 bits unsigned	pulse
00072	00073			Counter 2	32 bits unsigned	pulse
00074	00075			RSSI level	Float inverse	dBm
00076	00077			Number connections	32 bits unsigned	connections
00078	00079			Seconds last data received	32 bits unsigned	seconds
00080	00081	Pulse Counter	1008	Counter 1	32 bits unsigned	pulse
00082	00083			Counter 2	32 bits unsigned	pulse
00084	00085			RSSI level	Float inverse	dBm
00086	00087			Number connections	32 bits unsigned	connections
00088	00089			Seconds last data received	32 bits unsigned	seconds
00090	00091	Pulse Counter	1009	Counter 1	32 bits unsigned	pulse
00092	00093			Counter 2	32 bits unsigned	pulse
00094	00095			RSSI level	Float inverse	dBm
00096	00097			Number connections	32 bits unsigned	connections
00098	00099			Seconds last data received	32 bits unsigned	seconds

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00100	00101	Pulse Counter	1010	Counter 1	32 bits unsigned	pulse
00102	00103			Counter 2	32 bits unsigned	pulse
00104	00105			RSSI level	Float inverse	dBm
00106	00107			Number connections	32 bits unsigned	connections
00108	00109			Seconds last data received	32 bits unsigned	seconds
00110	00111	Pulse Counter	1011	Counter 1	32 bits unsigned	pulse
00112	00113			Counter 2	32 bits unsigned	pulse
00114	00115			RSSI level	Float inverse	dBm
00116	00117			Number connections	32 bits unsigned	connections
00118	00119			Seconds last data received	32 bits unsigned	seconds
00120	00121	Pulse Counter	1012	Counter 1	32 bits unsigned	pulse
00122	00123			Counter 2	32 bits unsigned	pulse
00124	00125			RSSI level	Float inverse	dBm
00126	00127			Number connections	32 bits unsigned	connections
00128	00129			Seconds last data received	32 bits unsigned	seconds
00130	00131	Pulse Counter	1013	Counter 1	32 bits unsigned	pulse
00132	00133			Counter 2	32 bits unsigned	pulse
00134	00135			RSSI level	Float inverse	dBm
00136	00137			Number connections	32 bits unsigned	connections
00138	00139			Seconds last data received	32 bits unsigned	seconds
00140	00141	Pulse Counter	1014	Counter 1	32 bits unsigned	pulse
00142	00143			Counter 2	32 bits unsigned	pulse
00144	00145			RSSI level	Float inverse	dBm
00146	00147			Number connections	32 bits unsigned	connections
00148	00149			Seconds last data received	32 bits unsigned	seconds
00150	00151	Pulse Counter	1015	Counter 1	32 bits unsigned	pulse
00152	00153			Counter 2	32 bits unsigned	pulse
00154	00155			RSSI level	Float inverse	dBm
00156	00157			Number connections	32 bits unsigned	connections
00158	00159			Seconds last data received	32 bits unsigned	seconds
00160	00161	Pulse Counter	1016	Counter 1	32 bits unsigned	pulse
00162	00163			Counter 2	32 bits unsigned	pulse
00164	00165			RSSI level	Float inverse	dBm
00166	00167			Number connections	32 bits unsigned	connections
00168	00169			Seconds last data received	32 bits unsigned	seconds
00170	00171	Pulse Counter	1017	Counter 1	32 bits unsigned	pulse
00172	00173			Counter 2	32 bits unsigned	pulse
00174	00175			RSSI level	Float inverse	dBm
00176	00177			Number connections	32 bits unsigned	connections
00178	00179			Seconds last data received	32 bits unsigned	seconds
00180	00181	Pulse Counter	1018	Counter 1	32 bits unsigned	pulse
00182	00183			Counter 2	32 bits unsigned	pulse
00184	00185			RSSI level	Float inverse	dBm
00186	00187			Number connections	32 bits unsigned	connections
00188	00189			Seconds last data received	32 bits unsigned	seconds
00190	00191	Pulse Counter	1019	Counter 1	32 bits unsigned	pulse
00192	00193			Counter 2	32 bits unsigned	pulse
00194	00195			RSSI level	Float inverse	dBm
00196	00197			Number connections	32 bits unsigned	connections
00198	00199			Seconds last data received	32 bits unsigned	seconds

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00200	00201	TH	2000	Temperatura	Float inverse	°C
00202	00203			Humedad	Float inverse	%HR
00204	00205			RSSI level	Float inverse	dBm
00206	00207			Number connections	32 bits unsigned	connections
00208	00209			Seconds last data received	32 bits unsigned	seconds
00210	00211	TH	2001	Temperatura	Float inverse	°C
00212	00213			Humedad	Float inverse	%HR
00214	00215			RSSI level	Float inverse	dBm
00216	00217			Number connections	32 bits unsigned	connections
00218	00219			Seconds last data received	32 bits unsigned	seconds
00220	00221	TH	2002	Temperatura	Float inverse	°C
00222	00223			Humedad	Float inverse	%HR
00224	00225			RSSI level	Float inverse	dBm
00226	00227			Number connections	32 bits unsigned	connections
00228	00229			Seconds last data received	32 bits unsigned	seconds
00230	00231	TH	2003	Temperatura	Float inverse	°C
00232	00233			Humedad	Float inverse	%HR
00234	00235			RSSI level	Float inverse	dBm
00236	00237			Number connections	32 bits unsigned	connections
00238	00239			Seconds last data received	32 bits unsigned	seconds
00240	00241	TH	2004	Temperatura	Float inverse	°C
00242	00243			Humedad	Float inverse	%HR
00244	00245			RSSI level	Float inverse	dBm
00246	00247			Number connections	32 bits unsigned	connections
00248	00249			Seconds last data received	32 bits unsigned	seconds
00250	00251	TH	2005	Temperatura	Float inverse	°C
00252	00253			Humedad	Float inverse	%HR
00254	00255			RSSI level	Float inverse	dBm
00256	00257			Number connections	32 bits unsigned	connections
00258	00259			Seconds last data received	32 bits unsigned	seconds
00260	00261	TH	2006	Temperatura	Float inverse	°C
00262	00263			Humedad	Float inverse	%HR
00264	00265			RSSI level	Float inverse	dBm
00266	00267			Number connections	32 bits unsigned	connections
00268	00269			Seconds last data received	32 bits unsigned	seconds
00270	00271	TH	2007	Temperatura	Float inverse	°C
00272	00273			Humedad	Float inverse	%HR
00274	00275			RSSI level	Float inverse	dBm
00276	00277			Number connections	32 bits unsigned	connections
00278	00279			Seconds last data received	32 bits unsigned	seconds
00280	00281	TH	2008	Temperatura	Float inverse	°C
00282	00283			Humedad	Float inverse	%HR
00284	00285			RSSI level	Float inverse	dBm
00286	00287			Number connections	32 bits unsigned	connections
00288	00289			Seconds last data received	32 bits unsigned	seconds
00290	00291	TH	2009	Temperatura	Float inverse	°C
00292	00293			Humedad	Float inverse	%HR
00294	00295			RSSI level	Float inverse	dBm
00296	00297			Number connections	32 bits unsigned	connections
00298	00299			Seconds last data received	32 bits unsigned	seconds

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00300	00301	TH	2010	Temperatura	Float inverse	°C
00302	00303			Humedad	Float inverse	%HR
00304	00305			RSSI level	Float inverse	dBm
00306	00307			Number connections	32 bits unsigned	connections
00308	00309			Seconds last data received	32 bits unsigned	seconds
00310	00311	TH	2011	Temperatura	Float inverse	°C
00312	00313			Humedad	Float inverse	%HR
00314	00315			RSSI level	Float inverse	dBm
00316	00317			Number connections	32 bits unsigned	connections
00318	00319			Seconds last data received	32 bits unsigned	seconds
00320	00321	TH	2012	Temperatura	Float inverse	°C
00322	00323			Humedad	Float inverse	%HR
00324	00325			RSSI level	Float inverse	dBm
00326	00327			Number connections	32 bits unsigned	connections
00328	00329			Seconds last data received	32 bits unsigned	seconds
00330	00331	TH	2013	Temperatura	Float inverse	°C
00332	00333			Humedad	Float inverse	%HR
00334	00335			RSSI level	Float inverse	dBm
00336	00337			Number connections	32 bits unsigned	connections
00338	00339			Seconds last data received	32 bits unsigned	seconds
00340	00341	TH	2014	Temperatura	Float inverse	°C
00342	00343			Humedad	Float inverse	%HR
00344	00345			RSSI level	Float inverse	dBm
00346	00347			Number connections	32 bits unsigned	connections
00348	00349			Seconds last data received	32 bits unsigned	seconds
00350	00351	TH	2015	Temperatura	Float inverse	°C
00352	00353			Humedad	Float inverse	%HR
00354	00355			RSSI level	Float inverse	dBm
00356	00357			Number connections	32 bits unsigned	connections
00358	00359			Seconds last data received	32 bits unsigned	seconds
00360	00361	TH	2016	Temperatura	Float inverse	°C
00362	00363			Humedad	Float inverse	%HR
00364	00365			RSSI level	Float inverse	dBm
00366	00367			Number connections	32 bits unsigned	connections
00368	00369			Seconds last data received	32 bits unsigned	seconds
00370	00371	TH	2017	Temperatura	Float inverse	°C
00372	00373			Humedad	Float inverse	%HR
00374	00375			RSSI level	Float inverse	dBm
00376	00377			Number connections	32 bits unsigned	connections
00378	00379			Seconds last data received	32 bits unsigned	seconds
00380	00381	TH	2018	Temperatura	Float inverse	°C
00382	00383			Humedad	Float inverse	%HR
00384	00385			RSSI level	Float inverse	dBm
00386	00387			Number connections	32 bits unsigned	connections
00388	00389			Seconds last data received	32 bits unsigned	seconds
00390	00391	TH	2019	Temperatura	Float inverse	°C
00392	00393			Humedad	Float inverse	%HR
00394	00395			RSSI level	Float inverse	dBm
00396	00397			Number connections	32 bits unsigned	connections
00398	00399			Seconds last data received	32 bits unsigned	seconds

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00400	00401	CO2-TH	3000	CO2	32 bits unsigned	ppm
00402	00403			Temperatura	Float inverse	°C
00404	00405			Humedad	Float inverse	%HR
00406	00407			RSSI level	Float inverse	dBm
00408	00409			Number connections	32 bits unsigned	connections
00410	00411			Seconds last data received	32 bits unsigned	seconds
00412	00413	CO2-TH	3001	CO2	32 bits unsigned	ppm
00414	00415			Temperatura	Float inverse	°C
00416	00417			Humedad	Float inverse	%HR
00418	00419			RSSI level	Float inverse	dBm
00420	00421			Number connections	32 bits unsigned	connections
00422	00423			Seconds last data received	32 bits unsigned	seconds
00424	00425	CO2-TH	3002	CO2	32 bits unsigned	ppm
00426	00427			Temperatura	Float inverse	°C
00428	00429			Humedad	Float inverse	%HR
00430	00431			RSSI level	Float inverse	dBm
00432	00433			Number connections	32 bits unsigned	connections
00434	00435			Seconds last data received	32 bits unsigned	seconds
00436	00437	CO2-TH	3003	CO2	32 bits unsigned	ppm
00438	00439			Temperatura	Float inverse	°C
00440	00441			Humedad	Float inverse	%HR
00442	00443			RSSI level	Float inverse	dBm
00444	00445			Number connections	32 bits unsigned	connections
00446	00447			Seconds last data received	32 bits unsigned	seconds
00448	00449	CO2-TH	3004	CO2	32 bits unsigned	ppm
00450	00451			Temperatura	Float inverse	°C
00452	00453			Humedad	Float inverse	%HR
00454	00455			RSSI level	Float inverse	dBm
00456	00457			Number connections	32 bits unsigned	connections
00458	00459			Seconds last data received	32 bits unsigned	seconds
00460	00461	CO2-TH	3005	CO2	32 bits unsigned	ppm
00462	00463			Temperatura	Float inverse	°C
00464	00465			Humedad	Float inverse	%HR
00466	00467			RSSI level	Float inverse	dBm
00468	00469			Number connections	32 bits unsigned	connections
00470	00471			Seconds last data received	32 bits unsigned	seconds
00472	00473	CO2-TH	3006	CO2	32 bits unsigned	ppm
00474	00475			Temperatura	Float inverse	°C
00476	00477			Humedad	Float inverse	%HR
00478	00479			RSSI level	Float inverse	dBm
00480	00481			Number connections	32 bits unsigned	connections
00482	00483			Seconds last data received	32 bits unsigned	seconds
00484	00485	CO2-TH	3007	CO2	32 bits unsigned	ppm
00486	00487			Temperatura	Float inverse	°C
00488	00489			Humedad	Float inverse	%HR
00490	00491			RSSI level	Float inverse	dBm
00492	00493			Number connections	32 bits unsigned	connections
00494	00495			Seconds last data received	32 bits unsigned	seconds

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00496	00497	CO2-TH	3008	CO2	32 bits unsigned	ppm
00498	00499			Temperatura	Float inverse	°C
00500	00501			Humedad	Float inverse	%HR
00502	00503			RSSI level	Float inverse	dBm
00504	00505			Number connections	32 bits unsigned	connections
00506	00507			Seconds last data received	32 bits unsigned	seconds
00508	00509	CO2-TH	3009	CO2	32 bits unsigned	ppm
00510	00511			Temperatura	Float inverse	°C
00512	00513			Humedad	Float inverse	%HR
00514	00515			RSSI level	Float inverse	dBm
00516	00517			Number connections	32 bits unsigned	connections
00518	00519			Seconds last data received	32 bits unsigned	seconds
00520	00521	CO2-TH	3010	CO2	32 bits unsigned	ppm
00522	00523			Temperatura	Float inverse	°C
00524	00525			Humedad	Float inverse	%HR
00526	00527			RSSI level	Float inverse	dBm
00528	00529			Number connections	32 bits unsigned	connections
00530	00531			Seconds last data received	32 bits unsigned	seconds
00532	00533	CO2-TH	3011	CO2	32 bits unsigned	ppm
00534	00535			Temperatura	Float inverse	°C
00536	00537			Humedad	Float inverse	%HR
00538	00539			RSSI level	Float inverse	dBm
00540	00541			Number connections	32 bits unsigned	connections
00542	00543			Seconds last data received	32 bits unsigned	seconds
00544	00545	CO2-TH	3012	CO2	32 bits unsigned	ppm
00546	00547			Temperatura	Float inverse	°C
00548	00549			Humedad	Float inverse	%HR
00550	00551			RSSI level	Float inverse	dBm
00552	00553			Number connections	32 bits unsigned	connections
00554	00555			Seconds last data received	32 bits unsigned	seconds
00556	00557	CO2-TH	3013	CO2	32 bits unsigned	ppm
00558	00559			Temperatura	Float inverse	°C
00560	00561			Humedad	Float inverse	%HR
00562	00563			RSSI level	Float inverse	dBm
00564	00565			Number connections	32 bits unsigned	connections
00566	00567			Seconds last data received	32 bits unsigned	seconds
00568	00569	CO2-TH	3014	CO2	32 bits unsigned	ppm
00570	00571			Temperatura	Float inverse	°C
00572	00573			Humedad	Float inverse	%HR
00574	00575			RSSI level	Float inverse	dBm
00576	00577			Number connections	32 bits unsigned	connections
00578	00579			Seconds last data received	32 bits unsigned	seconds
00580	00581	CO2-TH	3015	CO2	32 bits unsigned	ppm
00582	00583			Temperatura	Float inverse	°C
00584	00585			Humedad	Float inverse	%HR
00586	00587			RSSI level	Float inverse	dBm
00588	00589			Number connections	32 bits unsigned	connections
00590	00591			Seconds last data received	32 bits unsigned	seconds

Register	Register	Type Device LongNet	ID LongNet	Description	Format	Units
00592	00593	CO2-TH	3016	CO2	32 bits unsigned	ppm
00594	00595			Temperatura	Float inverse	°C
00596	00597			Humedad	Float inverse	%HR
00598	00599			RSSI level	Float inverse	dBm
00600	00601			Number connections	32 bits unsigned	connections
00602	00603			Seconds last data received	32 bits unsigned	seconds
00604	00605	CO2-TH	3017	CO2	32 bits unsigned	ppm
00606	00607			Temperatura	Float inverse	°C
00608	00609			Humedad	Float inverse	%HR
00610	00611			RSSI level	Float inverse	dBm
00612	00613			Number connections	32 bits unsigned	connections
00614	00615			Seconds last data received	32 bits unsigned	seconds
00616	00617	CO2-TH	3018	CO2	32 bits unsigned	ppm
00618	00619			Temperatura	Float inverse	°C
00620	00621			Humedad	Float inverse	%HR
00622	00623			RSSI level	Float inverse	dBm
00624	00625			Number connections	32 bits unsigned	connections
00626	00627			Seconds last data received	32 bits unsigned	seconds
00628	00629	CO2-TH	3019	CO2	32 bits unsigned	ppm
00630	00631			Temperatura	Float inverse	°C
00632	00633			Humedad	Float inverse	%HR
00634	00635			RSSI level	Float inverse	dBm
00636	00637			Number connections	32 bits unsigned	connections
00638	00639			Seconds last data received	32 bits unsigned	seconds