

```
1 # Example yaml: full tcp connection
2
3
4
5
6 - name: EW11
7   type: tcp
8   host: 192.168.1.18
9   port: 8899
10
11   sensors:
12     - name: Grid_Power_L1
13       device_address: 1
14       address: 77
15       input_type: holding
16       unit_of_measurement: W
17       device_class: power
18       state_class: measurement
19       scale: 1
20       offset: 0
21       precision: 1
22       data_type: int16
23
24     - name: Grid_Power_L2
25       slave: 1
26       address: 78
27       input_type: holding
28       unit_of_measurement: W
29       device_class: power
30       state_class: measurement
31       scale: 1
32       offset: 0
33       precision: 1
34       data_type: int16
35
36     - name: Grid_Power_L3
37       slave: 1
38       address: 79
39       input_type: holding
40       unit_of_measurement: W
41       device_class: power
42       state_class: measurement
43       scale: 1
44       offset: 0
45       precision: 1
46       data_type: int16
47
48     - name: Grid_Voltage_L1
49       slave: 1
50       address: 32
51       input_type: holding
52       unit_of_measurement: V
53       device_class: voltage
54       state_class: measurement
55       scale: 0.1
56       offset: 0
57       precision: 1
58       data_type: uint16
59
60     - name: Grid_Voltage_L2
61       slave: 1
62       address: 33
63       input_type: holding
64       unit_of_measurement: V
65       device_class: voltage
66       state_class: measurement
67       scale: 0.1
68       offset: 0
69       precision: 1
70       data_type: uint16
71
72     - name: Grid_Voltage_L3
73       slave: 1
74       address: 34
75       input_type: holding
76       unit_of_measurement: V
77       device_class: voltage
78       state_class: measurement
79       scale: 0.1
80       offset: 0
81       precision: 1
82       data_type: uint16
```

```
74
75 - name: Grid_Voltage_L3
76   slave: 1
77   address: 34
78   input_type: holding
79   unit_of_measurement: V
80   device_class: voltage
81   state_class: measurement
82   scale: 0.1
83   offset: 0
84   precision: 1
85   data_type: uint16
86
87 - name: Grid_Current_L1
88   slave: 1
89   address: 35
90   input_type: holding
91   unit_of_measurement: A
92   device_class: current
93   state_class: measurement
94   scale: 0.1
95   offset: 0
96   precision: 1
97   data_type: uint16
98
99 - name: Grid_Current_L2
100  slave: 1
101  address: 36
102  input_type: holding
103  unit_of_measurement: A
104  device_class: current
105  state_class: measurement
106  scale: 0.1
107  offset: 0
108  precision: 1
109  data_type: uint16
110
111 - name: Grid_Current_L3
112  slave: 1
113  address: 37
114  input_type: holding
115  unit_of_measurement: A
116  device_class: current
117  state_class: measurement
118  scale: 0.1
119  offset: 0
120  precision: 1
121  data_type: uint16
122
123 - name: CT_Power_L1
124  slave: 1
125  address: 58
126  input_type: holding
127  unit_of_measurement: W
128  device_class: power
129  state_class: measurement
130  scale: 0.1
131  offset: 0
132  precision: 1
133  data_type: uint16
134
135 - name: CT_Power_L2
136  slave: 1
137  address: 59
138  input_type: holding
139  unit_of_measurement: W
140  device_class: power
141  state_class: measurement
142  scale: 0.1
143  offset: 0
144  precision: 1
145  data_type: uint16
146
```

```
147 - name: CT_Power_L3
148   slave: 1
149   address: 60
150   input_type: holding
151   unit_of_measurement: W
152   device_class: power
153   state_class: measurement
154   scale: 0.1
155   offset: 0
156   precision: 1
157   data_type: uint16
158
159 - name: Load_Power_L1
160   slave: 1
161   address: 86
162   input_type: holding
163   unit_of_measurement: W
164   device_class: power
165   state_class: measurement
166   scale: 0.1
167   offset: 0
168   precision: 1
169   data_type: int16
170
171 - name: Load_Power_L2
172   slave: 1
173   address: 87
174   input_type: holding
175   unit_of_measurement: W
176   device_class: power
177   state_class: measurement
178   scale: 0.1
179   offset: 0
180   precision: 1
181   data_type: int16
182
183 - name: Load_Power_L3
184   slave: 1
185   address: 88
186   input_type: holding
187   unit_of_measurement: W
188   device_class: power
189   state_class: measurement
190   scale: 0.1
191   offset: 0
192   precision: 1
193   data_type: int16
194
195 - name: Load_Voltage_L1
196   slave: 1
197   address: 38
198   input_type: holding
199   unit_of_measurement: V
200   device_class: voltage
201   state_class: measurement
202   scale: 0.1
203   offset: 0
204   precision: 1
205   data_type: uint16
206
207 - name: Load_Voltage_L2
208   slave: 1
209   address: 39
210   input_type: holding
211   unit_of_measurement: V
212   device_class: voltage
213   state_class: measurement
214   scale: 0.1
215   offset: 0
216   precision: 1
217   data_type: uint16
218
219 - name: Load_Voltage_L3
```

```
220     slave: 1
221     address: 40
222     input_type: holding
223     unit_of_measurement: V
224     device_class: voltage
225     state_class: measurement
226     scale: 0.1
227     offset: 0
228     precision: 1
229     data_type: uint16
230
231 - name: Load_Current_L1
232   slave: 1
233   address: 41
234   input_type: holding
235   unit_of_measurement: A
236   device_class: current
237   state_class: measurement
238   scale: 0.1
239   offset: 0
240   precision: 1
241   data_type: uint16
242
243 - name: Load_Current_L2
244   slave: 1
245   address: 42
246   input_type: holding
247   unit_of_measurement: A
248   device_class: current
249   state_class: measurement
250   scale: 0.1
251   offset: 0
252   precision: 1
253   data_type: uint16
254
255 - name: Load_Current_L3
256   slave: 1
257   address: 43
258   input_type: holding
259   unit_of_measurement: A
260   device_class: current
261   state_class: measurement
262   scale: 0.1
263   offset: 0
264   precision: 1
265   data_type: uint16
266
267 - name: Inverter_Power_L1
268   slave: 1
269   address: 65
270   input_type: holding
271   unit_of_measurement: W
272   device_class: power
273   state_class: measurement
274   scale: 1
275   offset: 0
276   precision: 1
277   data_type: int16
278
279 - name: Inverter_Power_L2
280   slave: 1
281   address: 66
282   input_type: holding
283   unit_of_measurement: W
284   device_class: power
285   state_class: measurement
286   scale: 1
287   offset: 0
288   precision: 1
289   data_type: int16
290
291 - name: Inverter_Power_L3
292   slave: 1
```

```
293     address: 67
294     input_type: holding
295     unit_of_measurement: W
296     device_class: power
297     state_class: measurement
298     scale: 1
299     offset: 0
300     precision: 1
301     data_type: int16
302
303 - name: Inverter_Current_L1
304   slave: 1
305   address: 29
306   input_type: holding
307   unit_of_measurement: A
308   device_class: current
309   state_class: measurement
310   scale: 0.01
311   offset: 0
312   precision: 2
313   data_type: uint16
314
315 - name: Inverter_Current_L2
316   slave: 1
317   address: 30
318   input_type: holding
319   unit_of_measurement: A
320   device_class: current
321   state_class: measurement
322   scale: 0.01
323   offset: 0
324   precision: 2
325   data_type: uint16
326
327 - name: Inverter_Current_L3
328   slave: 1
329   address: 31
330   input_type: holding
331   unit_of_measurement: A
332   device_class: current
333   state_class: measurement
334   scale: 0.01
335   offset: 0
336   precision: 2
337   data_type: uint16
338
339 - name: Inverter_Voltage_L1
340   slave: 1
341   address: 26
342   input_type: holding
343   unit_of_measurement: V
344   device_class: voltage
345   state_class: measurement
346   scale: 0.1
347   offset: 0
348   precision: 1
349   data_type: uint16
350
351 - name: Inverter_Voltage_L2
352   slave: 1
353   address: 27
354   input_type: holding
355   unit_of_measurement: V
356   device_class: voltage
357   state_class: measurement
358   scale: 0.1
359   offset: 0
360   precision: 1
361   data_type: uint16
362
363 - name: Inverter_Voltage_L3
364   slave: 1
365   address: 28
```

```
366     input_type: holding
367     unit_of_measurement: V
368     device_class: voltage
369     state_class: measurement
370     scale: 0.1
371     offset: 0
372     precision: 1
373     data_type: uint16
374
375 - name: Inverter_frequency
376   slave: 1
377   address: 52
378   input_type: holding
379   unit_of_measurement: Hz
380   device_class: frequency
381   state_class: measurement
382   scale: 0.01
383   offset: 0
384   precision: 2
385   data_type: int16
386
387 - name: SW Version
388   slave: 1
389   address: 89
390   input_type: holding
391   data_type: uint16
392
393
394 # Battery Data
395 - name: Battery_Voltage
396   slave: 1
397   address: 2026
398   input_type: holding
399   unit_of_measurement: V
400   device_class: voltage
401   state_class: measurement
402   scale: 0.01
403   offset: 0
404   precision: 1
405   data_type: int16
406
407 - name: Battery_Current
408   slave: 1
409   address: 2027
410   input_type: holding
411   unit_of_measurement: A
412   device_class: current
413   state_class: measurement
414   scale: 0.1
415   offset: 0
416   precision: 1
417   data_type: int16
418
419 - name: Battery_Power
420   slave: 1
421   address: 2036
422   input_type: holding
423   unit_of_measurement: W
424   device_class: power
425   state_class: measurement
426   scale: 1
427   offset: 0
428   precision: 1
429   data_type: int16
430
431 - name: Battery_Temperatur
432   slave: 1
433   address: 2055
434   input_type: holding
435   unit_of_measurement: °C
436   device_class: temperature
437   state_class: measurement
438   scale: 0.1
```

```
439         offset: 0
440         precision: 1
441         data_type: uint16
442
443     - name: Battery_SOC
444       slave: 1
445       address: 2039
446       input_type: holding
447       unit_of_measurement: '%'
448       device_class: battery
449       state_class: measurement
450       scale: 1
451       offset: 0
452       precision: 1
453       data_type: uint16
454
455     - name: Day_Battery_CHG
456       slave: 1
457       address: 2068
458       input_type: holding
459       unit_of_measurement: kWh
460       device_class: energy
461       state_class: total_increasing
462       scale: 0.1
463       offset: 0
464       precision: 1
465       data_type: uint16
466
467     - name: Total_Battery_CHG
468       slave: 1
469       address: 2069
470       input_type: holding
471       unit_of_measurement: kWh
472       device_class: energy
473       state_class: total
474       scale: 0.1
475       offset: 0
476       precision: 1
477       data_type: uint32
478
479     - name: Day_Battery_DCHG
480       slave: 1
481       address: 2071
482       input_type: holding
483       unit_of_measurement: kWh
484       device_class: energy
485       state_class: total_increasing
486       scale: 0.1
487       offset: 0
488       precision: 1
489       data_type: uint16
490
491     - name: Total_Battery_DCHG
492       slave: 1
493       address: 2072
494       input_type: holding
495       unit_of_measurement: kWh
496       device_class: energy
497       state_class: total
498       scale: 0.1
499       offset: 0
500       precision: 1
501       data_type: uint32
502
503     - name: PV1_Voltage
504       slave: 1
505       address: 2028
506       input_type: holding
507       unit_of_measurement: V
508       device_class: voltage
509       state_class: measurement
510       scale: 0.1
511       offset: 0
```

```
512     precision: 2
513     data_type: int16
514
515 - name: PV1_Current
516   slave: 1
517   address: 2029
518   input_type: holding
519   unit_of_measurement: A
520   device_class: current
521   state_class: measurement
522   scale: 0.01
523   offset: 0
524   precision: 1
525   data_type: int16
526
527 - name: PV1_Power
528   slave: 1
529   address: 2037
530   input_type: holding
531   unit_of_measurement: W
532   device_class: power
533   state_class: measurement
534   scale: 1
535   offset: 0
536   precision: 1
537   data_type: int16
538
539 - name: PV2_Voltage
540   slave: 1
541   address: 2030
542   input_type: holding
543   unit_of_measurement: V
544   device_class: voltage
545   state_class: measurement
546   scale: 0.1
547   offset: 0
548   precision: 1
549   data_type: int16
550
551 - name: PV2_Current
552   slave: 1
553   address: 2031
554   input_type: holding
555   unit_of_measurement: A
556   device_class: current
557   state_class: measurement
558   scale: 0.01
559   offset: 0
560   precision: 1
561   data_type: int16
562
563 - name: PV2_Power
564   slave: 1
565   address: 2038
566   input_type: holding
567   unit_of_measurement: W
568   device_class: power
569   state_class: measurement
570   scale: 1
571   offset: 0
572   precision: 1
573   data_type: int16
574
575 - name: Day_PV
576   slave: 1
577   address: 2065
578   input_type: holding
579   unit_of_measurement: kWh
580   device_class: energy
581   state_class: total_increasing
582   scale: 0.1
583   offset: 0
584   precision: 1
```



```
585         data_type: uint16
586
587     - name: Total_PV
588       slave: 1
589       address: 2066
590       input_type: holding
591       unit_of_measurement: kWh
592       device_class: energy
593       state_class: total
594       scale: 0.1
595       offset: 0
596       precision: 1
597       data_type: uint32
598
599     - name: Day_Grid_sell
600       slave: 1
601       address: 2077
602       input_type: holding
603       unit_of_measurement: kWh
604       device_class: energy
605       state_class: total_increasing
606       scale: 0.1
607       offset: 0
608       precision: 1
609       data_type: uint16
610
611     - name: Total_Grid_Sell
612       slave: 1
613       address: 2078
614       input_type: holding
615       unit_of_measurement: kWh
616       device_class: energy
617       state_class: total
618       scale: 0.1
619       offset: 0
620       precision: 1
621       data_type: uint32
622
623     - name: Day_Grid_buy
624       slave: 1
625       address: 2074
626       input_type: holding
627       unit_of_measurement: kWh
628       device_class: energy
629       state_class: total_increasing
630       scale: 0.1
631       offset: 0
632       precision: 1
633       data_type: uint16
634
635     - name: Total_Grid_buy
636       slave: 1
637       address: 2075
638       input_type: holding
639       unit_of_measurement: kWh
640       device_class: energy
641       state_class: total
642       scale: 0.1
643       offset: 0
644       precision: 1
645       data_type: uint32
646
647     - name: Day_Home
648       slave: 1
649       address: 2080
650       input_type: holding
651       unit_of_measurement: kWh
652       device_class: energy
653       state_class: total_increasing
654       scale: 0.1
655       offset: 0
656       precision: 1
657       data_type: uint16
```

```
658
659 - name: Total_Home
660   slave: 1
661   address: 2081
662   input_type: holding
663   unit_of_measurement: kWh
664   device_class: energy
665   state_class: total
666   scale: 0.1
667   offset: 0
668   precision: 1
669   data_type: uint32
670
671 - name: Temp_S1
672   slave: 1
673   address: 2043
674   input_type: holding
675   unit_of_measurement: °C
676   device_class: temperature
677   state_class: measurement
678   scale: 0.1
679   offset: 0
680   precision: 1
681   data_type: uint16
682
683 - name: Temp_S2
684   slave: 1
685   address: 2044
686   input_type: holding
687   unit_of_measurement: °C
688   device_class: temperature
689   state_class: measurement
690   scale: 0.1
691   offset: 0
692   precision: 1
693   data_type: uint16
694
695 - name: Temp_S3
696   slave: 1
697   address: 2045
698   input_type: holding
699   unit_of_measurement: °C
700   device_class: temperature
701   state_class: measurement
702   scale: 0.1
703   offset: 0
704   precision: 1
705   data_type: uint16
706
707 - name: Temp_S4
708   slave: 1
709   address: 2046
710   input_type: holding
711   unit_of_measurement: °C
712   device_class: temperature
713   state_class: measurement
714   scale: 0.1
715   offset: 0
716   precision: 1
717   data_type: uint16
718
719 - name: Temp_R1
720   slave: 1
721   address: 2047
722   input_type: holding
723   unit_of_measurement: °C
724   device_class: temperature
725   state_class: measurement
726   scale: 0.1
727   offset: 0
728   precision: 1
729   data_type: uint16
730
```

```
731 - name: Temp_R2
732   slave: 1
733   address: 2048
734   input_type: holding
735   unit_of_measurement: °C
736   device_class: temperature
737   state_class: measurement
738   scale: 0.1
739   offset: 0
740   precision: 1
741   data_type: uint16
742
743 - name: Temp_R3
744   slave: 1
745   address: 2049
746   input_type: holding
747   unit_of_measurement: °C
748   device_class: temperature
749   state_class: measurement
750   scale: 0.1
751   offset: 0
752   precision: 1
753   data_type: uint16
754
755 - name: Temp_R4
756   slave: 1
757   address: 2050
758   input_type: holding
759   unit_of_measurement: °C
760   device_class: temperature
761   state_class: measurement
762   scale: 0.1
763   offset: 0
764   precision: 1
765   data_type: uint16
```