Modbus TCP register

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CMD 68-V2

Designation	Resolution	signed	register	Data type	Unit
active energy import L123 Total (all tariffs)	0.001 kWh	no	6000	4	uInt64
active energy import L123 T1	0.001 kWh	no	6004	4	uInt64
active energy import L123 T2	0.001 kWh	no	6008	4	uInt64
active energy import L123 T3	0.001 kWh	no	6012	4	uInt64
active energy import L123 T4	0.001 kWh	no	6016	4	uInt64
active energy export L123 Total (all tariffs)	0.001 kWh	no	6020	4	uInt64
active energy export L123 T1	0.001 kWh	no	6024	4	uInt64
active energy export L123 T2	0.001 kWh	no	6028	4	uInt64
active energy export L123 T3	0.001 kWh	no	6032	4	uInt64
active energy export L123 T4	0.001 kWh	no	6036	4	uInt64
active energy import L1 Total (all tariffs)	0.001 kWh	no	6100	4	uInt64
active energy import L1 T1	0.001 kWh	no	6104	4	uInt64
active energy import L1 T2	0.001 kWh	no	6108	4	uInt64
active energy import L1 T3	0.001 kWh	no	6112	4	uInt64
active energy import L1 T4	0.001 kWh	no	6116	4	uInt64
active energy export L1 Total (all tariffs)	0.001 kWh	no	6120	4	uInt64
active energy export L1 T1	0.001 kWh	no	6124	4	uInt64
active energy export L1 T2	0.001 kWh	no	6128	4	uInt64
active energy export L1 T3	0.001 kWh	no	6132	4	uInt64
active energy export L1 T4	0.001 kWh	no	6136	4	uInt64
active energy import L2 Total (all tariffs)	0.001 kWh	no	6140	4	uInt64
active energy import L2 T1	0.001 kWh	no	6144	4	uInt64
active energy import L2 T2	0.001 kWh	no	6148	4	uInt64
active energy import L2 T3	0.001 kWh	no	6152	4	uInt64
active energy import L2 T4	0.001 kWh	no	6156	4	uInt64
active energy export L2 Total (all tariffs)	0.001 kWh	no	6160	4	uInt64
active energy export L2 T1	0.001 kWh	no	6164	4	uInt64
active energy export L2 T2	0.001 kWh	no	6168	4	uInt64
active energy export L2 T3	0.001 kWh	no	6172	4	uInt64
active energy export L2 T4	0.001 kWh	no	6176	4	uInt64
active energy import L3 Total (all tariffs)	0.001 kWh	no	6180	4	uInt64

active energy import L3 T1	0.001 kWh	no	6184	4 uInt64
active energy import L3 T2	0.001 kWh	no	6188	4 uInt64
active energy import L3 T3	0.001 kWh	no	6192	4 uInt64
active energy import L3 T4	0.001 kWh	no	6196	4 uInt64
active energy export L3 Total (all tariffs)	0.001 kWh	no	6200	4 uInt64
active energy export L3 T1	0.001 kWh	no	6204	4 uInt64
active energy export L3 T2	0.001 kWh	no	6208	4 uInt64
active energy export L3 T3	0.001 kWh	no	6212	4 uInt64
active energy export L3 T4	0.001 kWh	no	6216	4 uInt64
reactive energy import L123 Total (all tariffs) (induktiv)	0.001 kvarh	no	6300	4 uInt64
reactive energy import L123 T1	0.001 kvarh	no	6304	4 uInt64
reactive energy import L123 T2	0.001 kvarh	no	6308	4 uInt64
reactive energy import L123 T3	0.001 kvarh	no	6312	4 uInt64
reactive energy import L123 T4	0.001 kvarh	no	6316	4 uInt64
reactive energy export L123 Total (all tariffs)	0.001 kvarh	no	6320	4 uInt64
reactive energy export L123 T1	0.001 kvarh	no	6324	4 uInt64
reactive energy export L123 T2	0.001 kvarh	no	6328	4 uInt64
reactive energy export L123 T3	0.001 kvarh	no	6332	4 uInt64
reactive energy export L123 T4	0.001 kvarh	no	6336	4 uInt64
reactive energy import L1 Total (all tariffs)	0.001 kvarh	no	6400	4 uInt64
reactive energy import L1 T1	0.001 kvarh	no	6404	4 uInt64
reactive energy import L1 T2	0.001 kvarh	no	6408	4 uInt64
reactive energy import L1 T3	0.001 kvarh	no	6412	4 uInt64
reactive energy import L1 T4	0.001 kvarh	no	6416	4 uInt64
reactive energy export L1 Total (all tariffs)	0.001 kvarh	no	6420	4 uInt64
reactive energy export L1 T1	0.001 kvarh	no	6424	4 uInt64
reactive energy export L1 T2	0.001 kvarh	no	6428	4 uInt64
reactive energy export L1 T3	0.001 kvarh	no	6432	4 uInt64
reactive energy export L1 T4	0.001 kvarh	no	6436	4 uInt64
reactive energy import L2 Total (all tariffs)	0.001 kvarh	no	6440	4 uInt64
reactive energy import L2 T1	0.001 kvarh	no	6444	4 uInt64

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reactive energy import L2 T2	0.001 kvarh no	6448	4 uInt64
reactive energy import L2 T3	0.001 kvarh no	6452	4 uInt64
reactive energy import L2 T4	0.001 kvarh no	6456	4 uInt64
reactive energy export L2 Total (all tariffs)	0.001 kvarh no	6460	4 uInt64
reactive energy export L2 T1	0.001 kvarh no	6464	4 uInt64
reactive energy export L2 T2	0.001 kvarh no	6468	4 uInt64
reactive energy export L2 T3	0.001 kvarh no	6472	4 uInt64
reactive energy export L2 T4	0.001 kvarh no	6476	4 uInt64
reactive energy import L3 Total (all tariffs)	0.001 kvarh no	6480	4 uInt64
reactive energy import L3 T1	0.001 kvarh no	6484	4 uInt64
reactive energy import L3 T2	0.001 kvarh no	6488	4 uInt64
reactive energy import L3 T3	0.001 kvarh no	6492	4 uInt64
reactive energy import L3 T4	0.001 kvarh no	6496	4 uInt64
reactive energy export L3 Total (all tariffs)	0.001 kvarh no	6500	4 uInt64
reactive energy export L3 T1	0.001 kvarh no	6504	4 uInt64
reactive energy export L3 T2	0.001 kvarh no	6508	4 uInt64
reactive energy export L3 T3	0.001 kvarh no	6512	4 uInt64
reactive energy export L3 T4	0.001 kvarh no	6516	4 uInt64

register with kWh - resolution

active energy import L123 Total (all tariffs)	1 kWh	no	7000	4 uInt64
active energy import L123 T1	1 kWh	no	7004	4 uInt64
active energy import L123 T2	1 kWh	no	7008	4 uInt64
active energy import L123 T3	1 kWh	no	7012	4 uInt64
active energy import L123 T4	1 kWh	no	7016	4 uInt64
active energy export L123 Total (all tariffs)	1 kWh	no	7020	4 uInt64
active energy export L123 T1	1 kWh	no	7024	4 uInt64
active energy export L123 T2	1 kWh	no	7028	4 uInt64
active energy export L123 T3	1 kWh	no	7032	4 uInt64
active energy export L123 T4	1 kWh	no	7036	4 uInt64

active energy import / Export scaling factor

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active energy import L1 Total (all tariffs)	1 kWh	no	7100	4	uInt64
active energy import L1 T1	1 kWh	no	7104	4	uInt64
active energy import L1 T2	1 kWh	no	7108	4	uInt64
active energy import L1 T3	1 kWh	no	7112	4	uInt64
active energy import L1 T4	1 kWh	no	7116	4	uInt64
active energy export L1 Total (all tariffs)	1 kWh	no	7120	4	uInt64
active energy export L1 T1	1 kWh	no	7124	4	uInt64
active energy export L1 T2	1 kWh	no	7128	4	uInt64
active energy export L1 T3	1 kWh	no	7132	4	uInt64
active energy export L1 T4	1 kWh	no	7136	4	uInt64
active energy import L2 Total (all tariffs)	1 kWh	no	7140	4	uInt64
active energy import L2 T1	1 kWh	no	7144	4	uInt64
active energy import L2 T2	1 kWh	no	7148	4	uInt64
active energy import L2 T3	1 kWh	no	7152	4	uInt64
active energy import L2 T4	1 kWh	no	7156	4	uInt64
active energy export L2 Total (all tariffs)	1 kWh	no	7160	4	uInt64
active energy export L2 T1	1 kWh	no	7164	4	uInt64
active energy export L2 T2	1 kWh	no	7168	4	uInt64
active energy export L2 T3	1 kWh	no	7172	4	uInt64
active energy export L2 T4	1 kWh	no	7176	4	uInt64
active energy import L3 Total (all tariffs)	1 kWh	no	7180	4	uInt64
active energy import L3 T1	1 kWh	no	7184	4	uInt64
active energy import L3 T2	1 kWh	no	7188	4	uInt64
active energy import L3 T3	1 kWh	no	7192	4	uInt64
active energy import L3 T4	1 kWh	no	7196	4	uInt64
active energy export L3 Total (all tariffs)	1 kWh	no	7200	4	uInt64
active energy export L3 T1	1 kWh	no	7204	4	uInt64
active energy export L3 T2	1 kWh	no	7208	4	uInt64
active energy export L3 T3	1 kWh	no	7212	4	uInt64
active energy export L3 T4	1 kWh	no	7216	4	uInt64

reactive energy import L123 Total (all tariffs) (induktiv)	1 kvarh	no	7300	4	uInt64
reactive energy import L123 T1	1 kvarh	no	7304	4	uInt64
reactive energy import L123 T2	1 kvarh	no	7308	4	uInt64
reactive energy import L123 T3	1 kvarh	no	7312	4	uInt64
reactive energy import L123 T4	1 kvarh	no	7316	4	uInt64
reactive energy export L123 Total (all tariffs)	1 kvarh	no	7320	4	uInt64
reactive energy export L123 T1	1 kvarh	no	7324	4	uInt64
reactive energy export L123 T2	1 kvarh	no	7328	4	uInt64
reactive energy export L123 T3	1 kvarh	no	7332	4	uInt64
reactive energy export L123 T4	1 kvarh	no	7336	4	uInt64
reactive energy import L1 Total (all tariffs)	1 kvarh	no	7340	4	uInt64
reactive energy import L1 T1	1 kvarh	no	7344	4	uInt64
reactive energy import L1 T2	1 kvarh	no	7348	4	uInt64
reactive energy import L1 T3	1 kvarh	no	7352	4	uInt64
reactive energy import L1 T4	1 kvarh	no	7356	4	uInt64
reactive energy export L1 Total (all tariffs)	1 kvarh	no	7360	4	uInt64
reactive energy export L1 T1	1 kvarh	no	7364	4	uInt64
reactive energy export L1 T2	1 kvarh	no	7368	4	uInt64
reactive energy export L1 T3	1 kvarh	no	7372	4	uInt64
reactive energy export L1 T4	1 kvarh	no	7376	4	uInt64
reactive energy import L2 Total (all tariffs)	1 kvarh	no	7380	4	uInt64
reactive energy import L2 T1	1 kvarh	no	7384	4	uInt64
reactive energy import L2 T2	1 kvarh	no	7388	4	uInt64
reactive energy import L2 T3	1 kvarh	no	7392	4	uInt64
reactive energy import L2 T4	1 kvarh	no	7396	4	uInt64
reactive energy export L2 Total (all tariffs)	1 kvarh	no	7400	4	uInt64
reactive energy export L2 T1	1 kvarh	no	7404	4	uInt64
reactive energy export L2 T2	1 kvarh	no	7408	4	uInt64
reactive energy export L2 T3	1 kvarh	no	7412	4	uInt64
reactive energy export L2 T4	1 kvarh	no	7416	4	uInt64
reactive energy import L3 Total (all tariffs)	1 kvarh	no	7420	4	uInt64
reactive energy import L3 T1	1 kvarh	no	7424	4	uInt64
reactive energy import L3 T2	1 kvarh	no	7428	4	uInt64

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reactive energy import L3 T3	1 kvarh	no		7432	4 uInt64
reactive energy import L3 T4	1 kvarh	no		7436	4 uInt64
reactive energy export L3 Total (all tariffs)	1 kvarh	no		7440	4 uInt64
reactive energy export L3 T1	1 kvarh	no		7444	4 uInt64
reactive energy export L3 T2	1 kvarh	no		7448	4 uInt64
reactive energy export L3 T3	1 kvarh	no		7452	4 uInt64
reactive energy export L3 T4	1 kvarh	no		7456	4 uInt64
register with kWh - Resolution as 32bit value !					
active energy import L123 Total (all tariffs)	1 kWh	no		8000	2 uInt32
active energy import L123 T1	1 kWh	no		8002	2 uInt32
active energy import L123 T2	1 kWh	no		8004	2 uInt32
active energy import L123 T3	1 kWh	no		8006	2 uInt32
active energy import L123 T4	1 kWh	no		8008	2 uInt32
active energy export L123 Total (all tariffs)	1 kWh	no		8010	2 uInt32
active energy export L123 T1	1 kWh	no		8012	2 uInt32
active energy export L123 T2	1 kWh	no		8014	2 uInt32
active energy export L123 T3	1 kWh	no		8016	2 uInt32
active energy export L123 T4	1 kWh	no		8018	2 uInt32
active energy import L1 Total (all tariffs)	1 kWh	no		8100	2 uInt32
active energy import L1 T1	1 kWh	no		8102	2 uInt32
active energy import L1 T2	1 kWh	no		8104	2 uInt32
active energy import L1 T3	1 kWh	no		8106	2 uInt32
active energy import L1 T4	1 kWh	no		8108	2 uInt32
active energy export L1 Total (all tariffs)	1 kWh	no		8110	2 uInt32
active energy export L1 T1	1 kWh	no		8112	2 uInt32
active energy export L1 T2	1 kWh	no		8114	2 uInt32
active energy export L1 T3	1 kWh	no		8116	2 uInt32
active energy export L1 T4	1 kWh	no		8118	2 uInt32
active energy import L2 Total (all tariffs)	1 kWh	no		8120	2 uInt32
active energy import L2 T1	1 kWh	no		8122	2 uInt32
active energy import L2 T2	1 kWh	no		8124	2 uInt32

active energy import L2 T3	1 kWh	no		8126	2 uInt32
active energy import L2 T4	1 kWh	no		8128	2 uInt32
active energy export L2 Total (all tariffs)	1 kWh	no		8130	2 uInt32
active energy export L2 T1	1 kWh	no		8132	2 uInt32
active energy export L2 T2	1 kWh	no		8134	2 uInt32
active energy export L2 T3	1 kWh	no		8136	2 uInt32
active energy export L2 T4	1 kWh	no		8138	2 uInt32
active energy import L3 Total (all tariffs)	1 kWh	no		8140	2 uInt32
active energy import L3 T1	1 kWh	no		8142	2 uInt32
active energy import L3 T2	1 kWh	no		8144	2 uInt32
active energy import L3 T3	1 kWh	no		8146	2 uInt32
active energy import L3 T4	1 kWh	no		8148	2 uInt32
active energy export L3 Total (all tariffs)	1 kWh	no		8150	2 uInt32
active energy export L3 T1	1 kWh	no		8152	2 uInt32
active energy export L3 T2	1 kWh	no		8154	2 uInt32
active energy export L3 T3	1 kWh	no		8156	2 uInt32
active energy export L3 T4	1 kWh	no		8158	2 uInt32
reactive energy import L123 Total (all tariffs) (induktiv)	1 kvarh	no		8200	2 uInt32
reactive energy import L123 T1	1 kvarh	no		8202	2 uInt32
reactive energy import L123 T2	1 kvarh	no		8204	2 uInt32
reactive energy import L123 T3	1 kvarh	no		8206	2 uInt32
reactive energy import L123 T4	1 kvarh	no		8208	2 uInt32
reactive energy export L123 Total (all tariffs)	1 kvarh	no		8210	2 uInt32
reactive energy export L123 T1	1 kvarh	no		8212	2 uInt32
reactive energy export L123 T2	1 kvarh	no		8214	2 uInt32
reactive energy export L123 T3	1 kvarh	no		8216	2 uInt32
reactive energy export L123 T4	1 kvarh	no		8218	2 uInt32
reactive energy import L1 Total (all tariffs)	1 kvarh	no		8300	2 uInt32
reactive energy import L1 T1	1 kvarh	no		8302	2 uInt32
reactive energy import L1 T2	1 kvarh	no		8304	2 uInt32
reactive energy import L1 T3	1 kvarh	no		8306	2 uInt32

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reactive energy import L1 T4	1 kvarh	no	8308	2	uInt32
reactive energy export L1 Total (all tariffs)	1 kvarh	no	8310	2	uInt32
reactive energy export L1 T1	1 kvarh	no	8312	2	uInt32
reactive energy export L1 T2	1 kvarh	no	8314	2	uInt32
reactive energy export L1 T3	1 kvarh	no	8316	2	uInt32
reactive energy export L1 T4	1 kvarh	no	8318	2	uInt32
reactive energy import L2 Total (all tariffs)	1 kvarh	no	8320	2	uInt32
reactive energy import L2 T1	1 kvarh	no	8322	2	uInt32
reactive energy import L2 T2	1 kvarh	no	8324	2	uInt32
reactive energy import L2 T3	1 kvarh	no	8326	2	uInt32
reactive energy import L2 T4	1 kvarh	no	8328	2	uInt32
reactive energy export L2 Total (all tariffs)	1 kvarh	no	8330	2	uInt32
reactive energy export L2 T1	1 kvarh	no	8332	2	uInt32
reactive energy export L2 T2	1 kvarh	no	8334	2	uInt32
eactive energy export L2 T3	1 kvarh	no	8336	2	uInt32
reactive energy export L2 T4	1 kvarh	no	8338	2	uInt32
reactive energy import L3 Total (all tariffs)	1 kvarh	no	8340	2	uInt32
reactive energy import L3 T1	1 kvarh	no	8342	2	uInt32
reactive energy import L3 T2	1 kvarh	no	8344	2	uInt32
reactive energy import L3 T3	1 kvarh	no	8346	2	uInt32
reactive energy import L3 T4	1 kvarh	no	8348	2	uInt32
reactive energy export L3 Total (all tariffs)	1 kvarh	no	8350	2	uInt32
reactive energy export L3 T1	1 kvarh	no	8352	2	uInt32
reactive energy export L3 T2	1 kvarh	no	8354	2	uInt32
reactive energy export L3 T3	1 kvarh	no	8356	2	uInt32
reactive energy export L3 T4	1 kvarh	no	8358	2	uInt32

Instantaneous values

active power L123	0.001 kW	yes	9000	2	sFloat32
active power L1	0.001 kW	yes	9002	2	sFloat32
active power L2	0.001 kW	yes	9004	2	sFloat32
active power L3	0.001 kW	yes	9006	2	sFloat32
reactive power L123	0.001 kvar	yes	9010	2	sFloat32
reactive power L1	0.001 kvar	yes	9012	2	sFloat32
reactive power L2	0.001 kvar	yes	9014	2	sFloat32
reactive power L3	0.001 kvar	yes	9016	2	sFloat32
apparent power L123	0.001 kVA	yes	9020	2	sFloat32
apparent power L1	0.001 kVA	yes	9022	2	sFloat32
apparent power L2	0.001 kVA	yes	9024	2	sFloat32
apparent power L3	0.001 kVA	yes	9026	2	sFloat32
current L123	0.001 A	yes	9100	2	sFloat32
current L1	0.001 A	yes	9102	2	sFloat32
current L2	0.001 A	yes	9104	2	sFloat32
current L3	0.001 A	yes	9106	2	sFloat32
current L4 (neutral; only at CT type, at direct type it is allways "0")	0.001 A	yes	9108	2	sFloat32
voltage L1-N	0.1 V	no	9200	2	sFloat32
voltage L2-N	0.1 V	no	9202	2	sFloat32
voltage L3-N	0.1 V	no	9204	2	sFloat32
voltage L1-L2	0.1 V	no	9206	2	sFloat32
voltage L2-L3	0.1 V	no	9208	2	sFloat32
voltage L3-L1	0.1 V	no	9210	2	sFloat32
voltage L1-N	0.001 V	no	9218	2	sFloat32
voltage L2-N	0.001 V	no	9220	2	sFloat32
voltage L3-N	0.001 V	no	9222	2	sFloat32
voltage L1-L2	0.001 V	no	9224	2	sFloat32
voltage L2-L3	0.001 V	no	9226	2	sFloat32
voltage L3-L1	0.001 V	no	9228	2	sFloat32

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power factor L1	100 Cos	no	9300	2 sFloat32	
power factor L2	100 Cos	no	9302	2 sFloat32	
power factor L3	100 Cos	no	9304	2 sFloat32	
frequency	100 Hz	no	9310	2 sFloat32	
frequency scale factor			9312	2 sFloat32	
power average			9314	2 sFloat32	