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1. ADL200&ADL400 Series Common FAQ

Q1: Why can’ t I set time on ADL Series energy meter I received?
A1: Setting time is an optional function. It can’ t be changed because there is difference on hardware. If you need this function or other optional functions, like multi-tariff, history record, frozen data, etc, you need to change a new energy meter.

Q2: Why the active power on my ADL200/400 is negative?
A1: If there is no power equipment in the circuit, Checking the direction of CT. If it is different with the current direction in the circuit, pls change its direction to realize power consumption measuring.
A2: As for the 3-phase energy meter, sometimes if power factor of phase is too low, even near 0, it’ s possible there is a problem on phase sequence, pls check the wiring.

Q3: Current and voltage is correct on the ADL400, but active power is lower than the real value?
A1: Check the power factors of 3 phase to make sure it’ s regular (normally >0.5). If not, pls check the wiring of Ua, Ub, Uc and change them to the right order.

Q1: Why is the data I get form ADL series incorrect?
A1: If the power consumption read by communication is incorrect, check the energy meter first. If the data on energy meters is correct, checking if two bytes are missing because electrical energy is 4 bytes of data.
A2: If the data on energy meter is incorrect and it’ s CT connected, pls check if you add ratio of CT. You could also check the power and power factors and if it’ s low, Return to Q2&3.

Q5: There is small difference on data between read by communication and energy meter.
A1:This year's new meter transformer connection model is mainly due to the fact that the displayed electrical energy is calculated by multiplying the second side electrical energy with four decimal places by the transformation ratio. The address of the modbus address table 0000H is calculated by multiplying the second side electrical energy with two decimal places, and 0842H is calculated by multiplying the second side electrical energy with two decimal places by the transformation ratio. Therefore, there is a decimal difference. Replacing the register address for communication energy reading with the address listed in section 9.2.2 of the 1.8 manual can solve the problem, It is recommended to read the address starting from E300H for the connection model of the transformer. The above solution is only applicable to programs with version 1766 V106 and above.

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Q6: ADL Series Read Power Complement Problem.

A1: The complement is a signed number, because active power, reactive power, and power factor are all divided into positive and negative, so they need to be analyzed according to signed numbers.

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