communication variables manual atv312

Altivar 312 Variable speed drives for asynchronous motors

Communication variables manual

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It will describe the email program and what to expect in the upcoming weeks. Enjoy. The table shows recommended fuse ratings for UL and CSA requirements. The components are for use together in accordance with standard UL508 The table shows recommended fuse ratings for UL and CSA requirements. The components are for use together in accordance with standard UL508 O indicates that the concentration of hazardous substance in all of the homogeneous. X indicates that concentration of hazardous substance in at least one of the homogeneousO indicates that the concentration of hazardous substance in all of the homogeneous. X indicates that concentration of hazardous substance in at least one of the homogeneousPlease try again later. For more details, please read our Keep an eyeout for your first welcome email which will explain what to expect in the upcoming weeks. Enjoy. We're here to help! For more details, please read our We are excited that you have joined the group. You will receive your first welcome message soon. It will describe the email program and what to expect in the upcoming weeks. Enjoy. Discover everything Scribd has to offer, including books and audiobooks from major publishers. Start Free Trial Cancel anytime. Report this Document Download Now Save Save Communication Variables PDF For Later 100% 1 100% found this document useful 1 vote 274 views 2 pages Communication Variables PDF Uploaded by Josefa Description Communicationvariablespdf Full description Save Save Communication Variables PDF For Later 100% 100% found this document useful, Mark this document as useful 0% 0% found this document not useful, Mark this document as not useful Embed Share Print Download Now Jump to Page You are on page 1 of 2 Search inside document Browse Books Site Directory Site Language English Change Language English Change Language. I thought that I will find somethig ready in the forum as both products are popular but that was not the case.

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I realised that there arent any examples in the forum using SE drives and also I did not find any examples using more than one slave. For that reason I made a fully tested working example using an S71200 with a CM1241, a S.E. Twido PLC and a S.E. ATV31 Drive. In the TIA portal project there is also an HMI configured which I utilised using the simulator. Before I explain my example I will

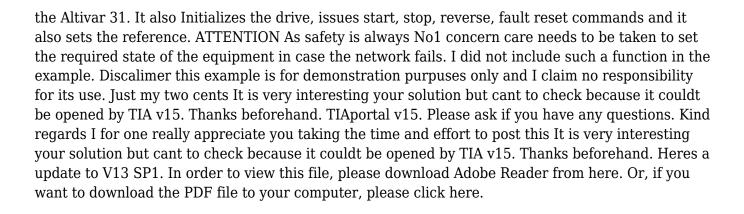
highlight a couple of things 1. Modbus was developed by Modicon and thus Modbus addressing fits Modicon contollers. Modicon controllers dont use Data Blocks, they have all their memory allocated in %M bits and %MW. Most of the times the Job can be done using words or in modbus terms 4000x registers. In our example this applies for the Twido PLC. If I wanted to read or write %MW100 from the PLC I then need to read register 40101 using Modbus. Most of the times though we need to communicate not with PLCs but with other devices as Drives, Power monitors, Instruments etc. For these items in their manuals the addressing is not given in %MW format ro 4000x format but it might be given as number i.e. from the ATV31 communication variable manual I read that the addres for the Last Fault is 7121. This is common practice for S.E. products. 2. Siemens uses a totally diffirent memory structrure from Modicon as it uses Datablocks. Therefore the controller addressing with the Modbus addressing are inconsistent. It takes an array of data from a data block and it makes the available to the master as Modbus addresses 4000x 4000n. In a modicon controller where the controller addressing and modbus addressing match, no code needs to be writen in the SLAVE. 3. In Modbus the Master polls the Slaves and reads and writes data to them. A lot of slaves mean longer poll times. Therefore care needs to be taken when selecting the Timeout setting of the devices. In the example the S71200 reads the Status word, the actual output frequency and the last fault data from the Altivar 31.

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It also Initializes the drive, issues start, stop, reverse, fault reset commands and it also sets the reference. ATTENTION As safety is always No1 concern care needs to be taken to set the required state of the equipment in case the network fails. I did not include such a function in the example. Discalimer this example is for demonstration purpuses only and I claim no responsibility for its use. Just my two cents Thank you for learn together. A better world is possible. But i dont have documentary about regist of Altivar which mean 4000x 47122. Can you share it for me, thank you so much. Nikzitronik Dear all I have a project where I need to control 4 Schneider electric Altivar312 drives using an S71200 using Modbus. I thought that I will find somethig ready in the forum as both products are popular but that was not the case. I realised that there arent any examples in the forum using SE drives and also I did not find any examples using more than one slave. For that reason I made a fully tested working example using an S71200 with a CM1241, a S.E. Twido PLC and a S.E. ATV31 Drive. In the TIA portal project there is also an HMI configured which I utilised using the simulator. Before I explain my example I will highlight a couple of things 1. Modbus was developed by Modicon and thus Modbus addressing fits Modicon contollers. Modicon controllers dont use Data Blocks, they have all their memory allocated in %M bits and %MW. Most of the times the Job can be done using words or in modbus terms 4000x registers. In our example this applies for the Twido PLC. If I wanted to read or write %MW100 from the PLC I then need to read register 40101 using Modbus. Most of the times though we need to communicate not with PLCs but with other devices as Drives, Power monitors, Instruments etc. For these items in their manuals the addressing is not given in %MW format ro 4000x format but it might be given as number i.e.

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from the ATV31 communication variable manual I read that the address for the Last Fault is 7121. This is common practice for S.E. products. 2. Siemens uses a totally diffirent memory structrure from Modicon as it uses Datablocks. Therefore the controller addressing with the Modbus addressing are inconsistent. It takes an array of data from a data block and it makes the available to the master as Modbus addresses 4000x 4000n. In a modicon controller where the controller addressing and modbus addressing match, no code needs to be writen in the SLAVE. 3. In Modbus the Master polls the Slaves and reads and writes data to them. A lot of slaves mean longer poll times. Therefore care needs to be taken when selecting the Timeout setting of the devices. In the example the S71200 reads the Status word, the actual output frequency and the last fault data from



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