

## External RTD input modules for VAMP 40

- External I/O modules with Modbus RTU protocol and RS-485 interface can be connected to VAMP 40 to extend its I/O.
- VAMP 40 must be equipped with VSE 002 or VSE 004 module to convert the VAMP 40 serial port into RS-485 mode.
- VSE 002 converts the REMOTE port signals to RS-485 levels.
- VSE 004 converts both REMOTE and LOCAL port signals to RS-485 levels.
- VSE 002 or VSE 004 is connected to the back panel D-connector of the VAMP 40 (set the dip switches in VSE 002 as follows: RS-232 interface, Termination ON).
- ADAM 4015B or equivalent RTD input module with ModbusRTU communication is connected to VSE 002 or VSE 004 with RS-485 cabling.

### VAMP 40 configuration

1. When VSE 002 is used, set protocol of the REMOTE serial port to External I/O. When VSE 004 is used, set either the REMOTE or the LOCAL port's protocol to External I/O.
2. Set Baudrate and Parity settings of the External I/O protocol (equal values that are configured for the Modbus communication of the RTD-input module)
3. Configure the “External Analog” inputs of the VAMP 40 relay (the AI Slave Address, AI Modbus Address and AI Register Type depend on the type of the RTD module and its configuration)

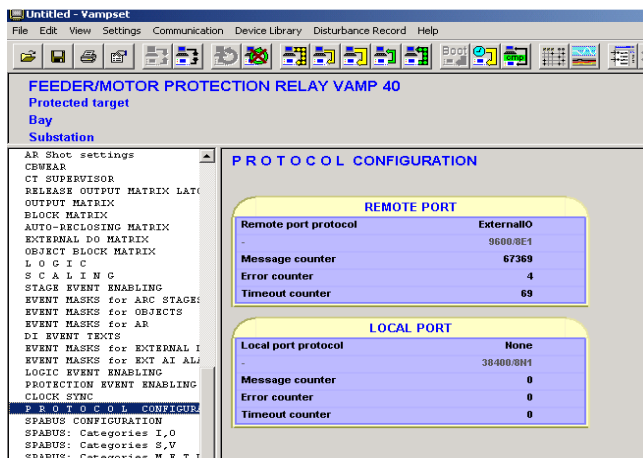


Figure 1. Remote port configuration for external I/O modules

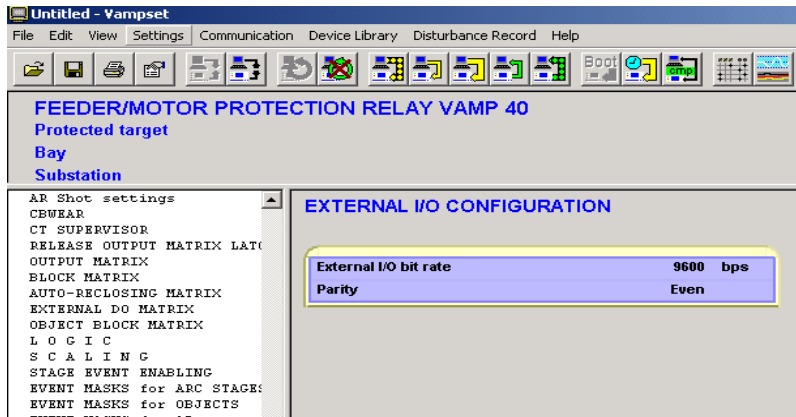


Figure 2. External I/O – protocol configuration

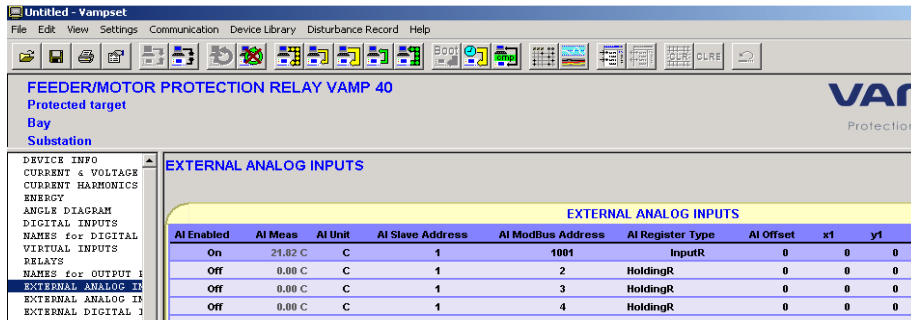


Figure 3. Configuring the external analog inputs ( using Nokeval 6800 module in this example ).

**NOTICE**

The RTD-inputs of the Adam 4015 module can be read via Input Register addresses 1...6. These registers hold a 16-bit binary value, which must be scaled to get a correct temperature value.

### Working test configuration

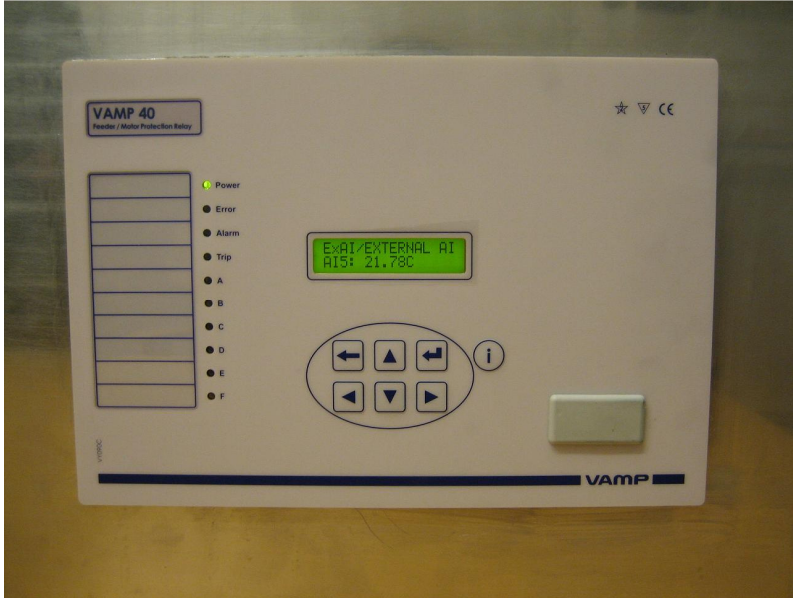


Figure 4. Temperature measurement value on VAMP 40 display.



Figure 5. VSE 002 is attached to VAMP 40

Keywords : External RTD input module, Adam 4015B RTD input module, External I/O module

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