|  |  |  |
| --- | --- | --- |
| Model Name: Example Listing | | |
| Name and affiliation of author or POC:  Chris Smith, MIT Lincoln Laboratory | Model Symbol: | Accreditation (TRL?):  None |
| Date of Publication:  3/13/17 |
| Version Information:  1.0 |
| Model accessibility (open source, license, …):  Open source |
| Model Description and Theory of Operation:  These set of blocks provide Test inputs over modbusTCP. The test sequence block receives commands from a third part machine which may act as a control and command interface during testing.  The master sub-folder contains a sample set of ModbusTCP outputs (from 2017 Symposium) that can be sent to this receiving block.  List of References:  None | | |
| Model Specifications:  Data is passed as INT16.  Assumptions and Limitations  Tested with 1 second input data. | | |
| Interfacing Information (platform, input requirements, possible outputs):  Inputs (INT16 over Modbus):  Timestamp (INT32)  Fault\_location\_1- Fault at location 1 is active  Fault\_location\_2- Fault at location 2 is active  Fault\_location\_3- Fault at location 3 is active  Fault\_location\_4- Fault at location 4 is active  Fault\_location\_5- Fault at location 5 is active  Cut\_Grid\_Power- Upstream grid power is disconnected  Irradiance- Irradiance (W/m^2)  Motor\_1- Grid load motor\_1 is energized  Motor\_2- Grid load motor\_2 is energized  Test3- TBD  Outputs (bus):  TestSeqData  Parameters:  None | | |
| Diagrammatic Representation of Model Internals: | | |
| Model Validation (technique used, evidence):  Used during 2017 Symposium to relay commands to OpalRT simulator. | | |
| Simulation Platform, Solvers:  Matlab 2013a with OpalRT. | | |
| Known Issues:  None | | |
| Models which use this block:  Banshee | | |