

Communication ports in Sepam series 80

You see the SEPAM 80 rear panel. As it is shown at right top side of the relay there are 3 RJ45. These communication ports are named as C1, C2 and F.

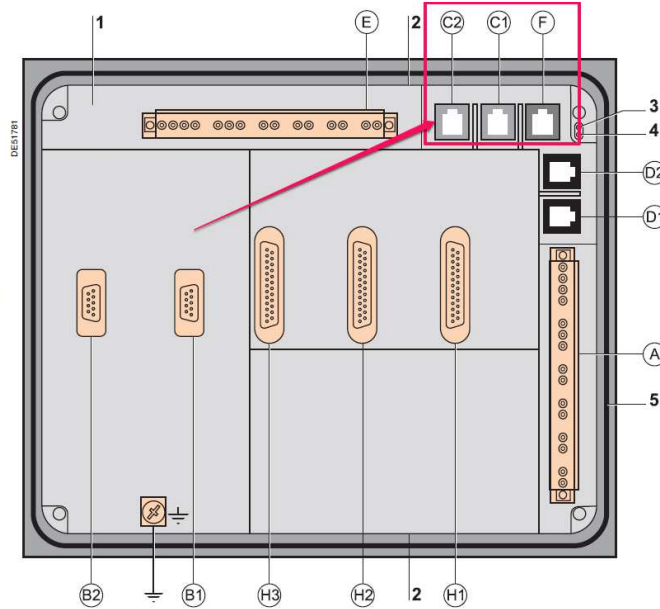


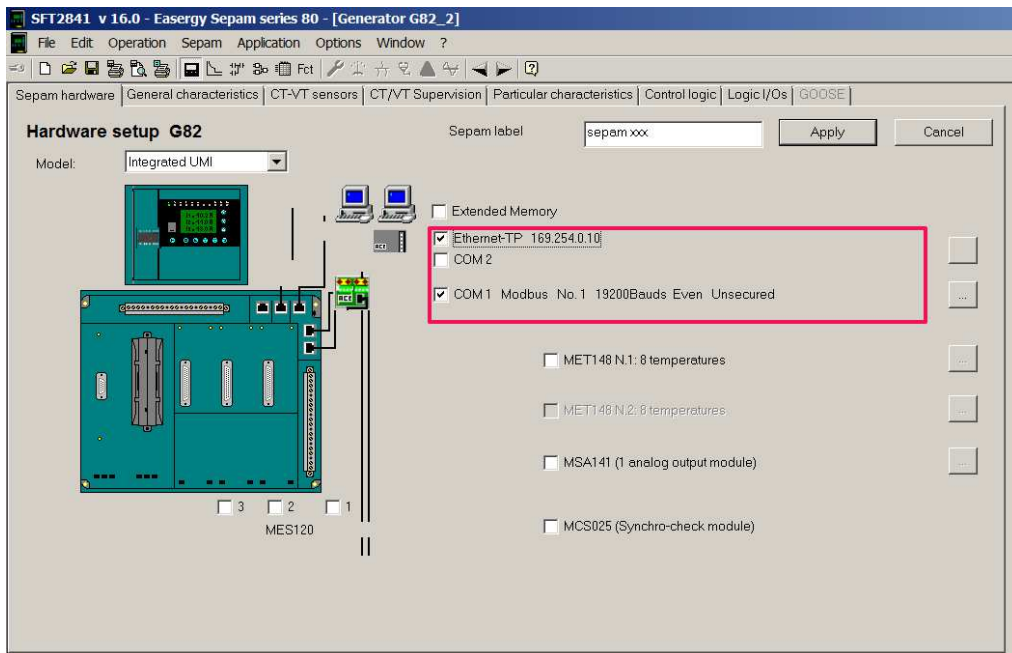
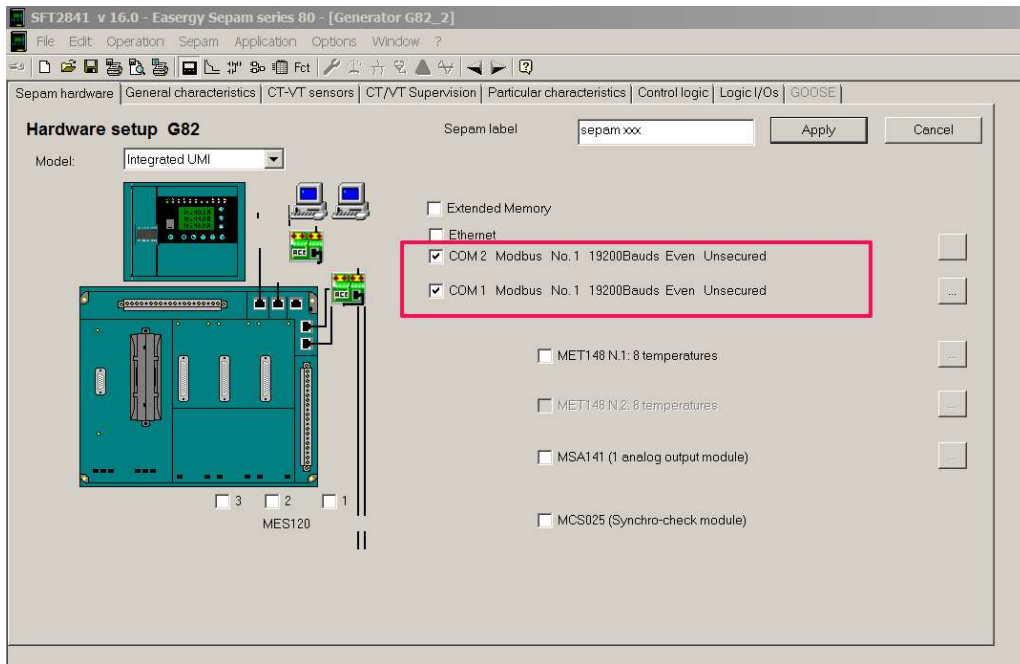
Table in below helps to know different communication interfaces could be connected to which port and could support which protocol.

ports	C1,C2	C1,C2	F
Interface	ACE 937/949/959	ACE 969TP- ACE 969FO	ACE 850TP- ACE 850FO
Protocol	Modbus RTU	Modbus RTU <u>or</u> IEC103 <u>or</u> DNP3.0	IEC61850 <u>and</u> Modbus TCP/IP

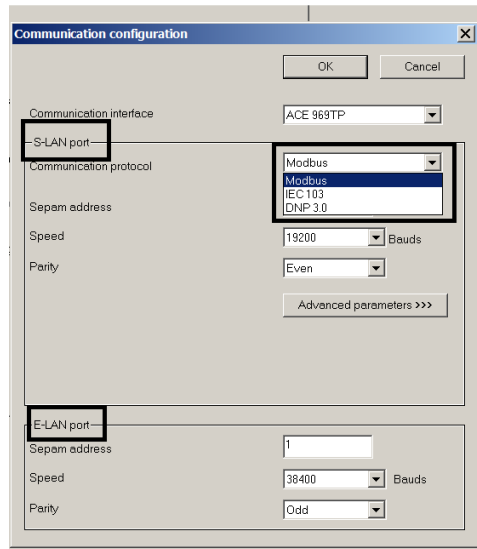
Some important items:

- Although SEPAM has three communications port but maximum 2 out of 3 could be used at the same time. Sepam setting/configuration tool SFT2841 is intelligent in this regard.

So it means you may have these configurations: C1+C2 or C1+F or just C1 or just C2 or just F. We cannot configure a SEPMA which is using all communication ports. In below some screen shots are showed explaining the maximum possibility of configured ports in SEPAM series 80.



- ACE 969 has two communication ports to connect a Sepam to two independent Communication networks, The S-LAN (Supervisory Local Area Network) port is used to connect Sepam to a communication network dedicated to supervision, using one of the three following protocols: IEC 60870-5-103 / DNP3 / Modbus RTU. The communication protocol is selected at the time of Sepam parameter setting. As shown in below. The E-LAN (Engineering Local Area Network) port, reserved for Sepam remote parameter setting and operation using the SFT2841 software.



- ACE850 interfaces have two Ethernet communication ports to connect a Sepam to a single Ethernet network depending on the topology (star or ring), For a star topology, only one communication port is used. For a ring topology, both Ethernet communication ports are used to provide redundancy. This redundancy conforms to the RSTP 802.1d 2004 standard. ACE 850 provide both IEC 61850 and Modbus TCP/IP at the same time.

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