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RI-A5PROF Module

Profibus-DP DPV0/DPV1 Module for RI-F500 Series

- Extends the capability of the RI-F500 Series Multifunction Network Analysers
- Automatically recognised by RI-F500 Series
- Automatic detection of baud rate
- Communication mode based on master-slave principle
- Configuration through first-level master
- Cyclic data transfer (DPV0)
- Acyclic data transfer (DPV1)

Product Description

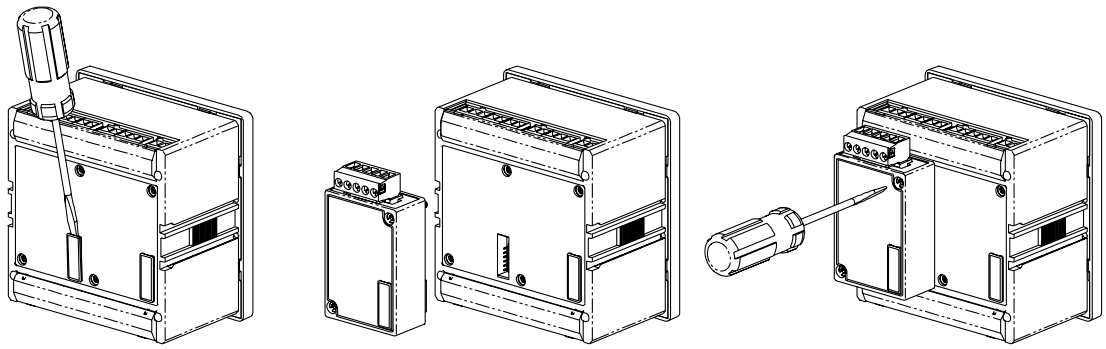
The RI-A5PROF is a Profibus communication module used to extend the function of the RI-F500 Series Network Analysers.

Safety Instruction

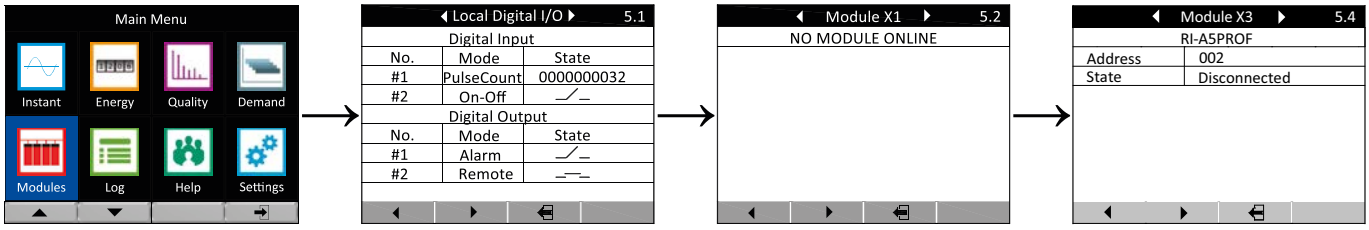
Please read this user information carefully before using this module.
This module must be installed and serviced by professional personnel.
The installer is responsible for compliance with these instructions.

Installation and Operation

Disconnect the power supply of RI-F500/RI-F550, and then connect the RI-A5PROF module to slot X3 (take slot X2 as example).

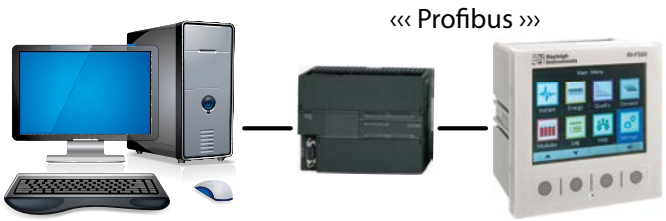


Connect the RI-F500/RI-F550 to the power supply, and then enter the module interface of the RI-F500/RI-F550 to check the information of slot X3.
If the connection between the meter and the module is correct, the parameters of RI-A5ETNT will be shown as the diagram below.



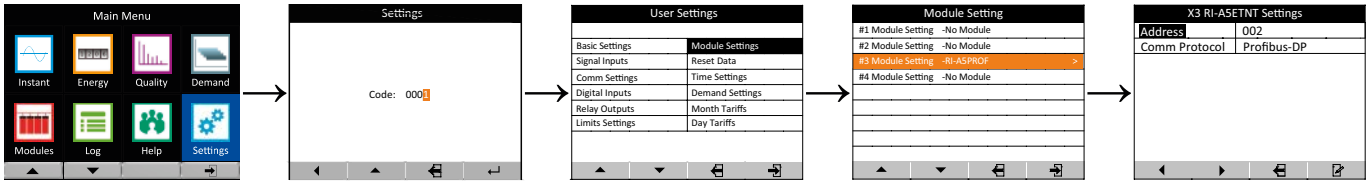
Communication Model

A Profibus network model is composed of a PC, PLC and RI-F550 equipped with a RI-A5PROF communication module. The PLC acts as the DP master and accesses the RI-F550 which is the DP slave for data exchange and control as illustrated below.



Module configuration through the panel of RI-F550

Every DP instrument needs a unique communication address. The address of the RI-A5PROF is changed via panel programming of RI-F550 (see below).



TAfter the address is modified the RI-A5PROF will re-start and then the new address will become effective and the Profibus DP master is then reconfigured to recognise this change.

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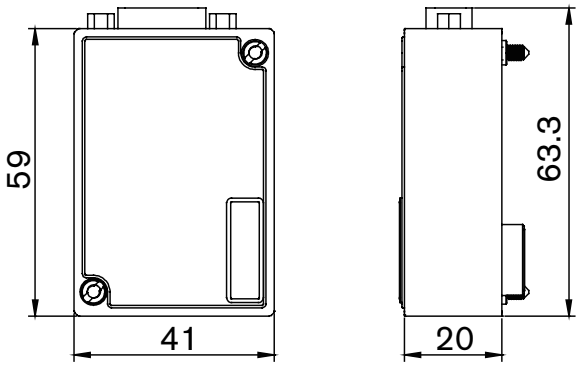
Technical Parameters

Network Interface	Profibus (DB9)
Transmission protocol	DPV0 / DPV1
Baud rate	9.6/19.2/45.45/93.73/187.75/500/1500/3000(kbps)
Address	1…127
Isolation transformer	1.5kV

Environmental Conditions

Operating temperature	–25°C…+85°C
Storage temperature	–40°C…+85°C
Relative humidity	0…95%, non-condensing

Dimensions



Model Selection Table

Description	Model
Profibus communication module	RI-A5PROF

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