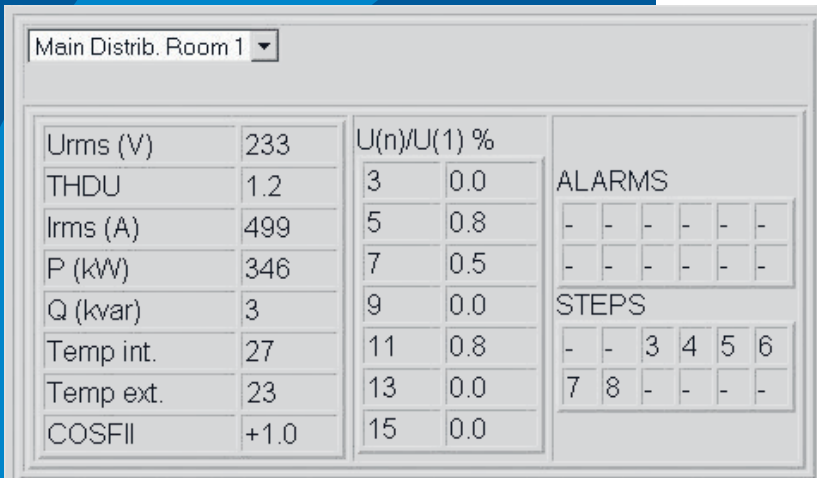
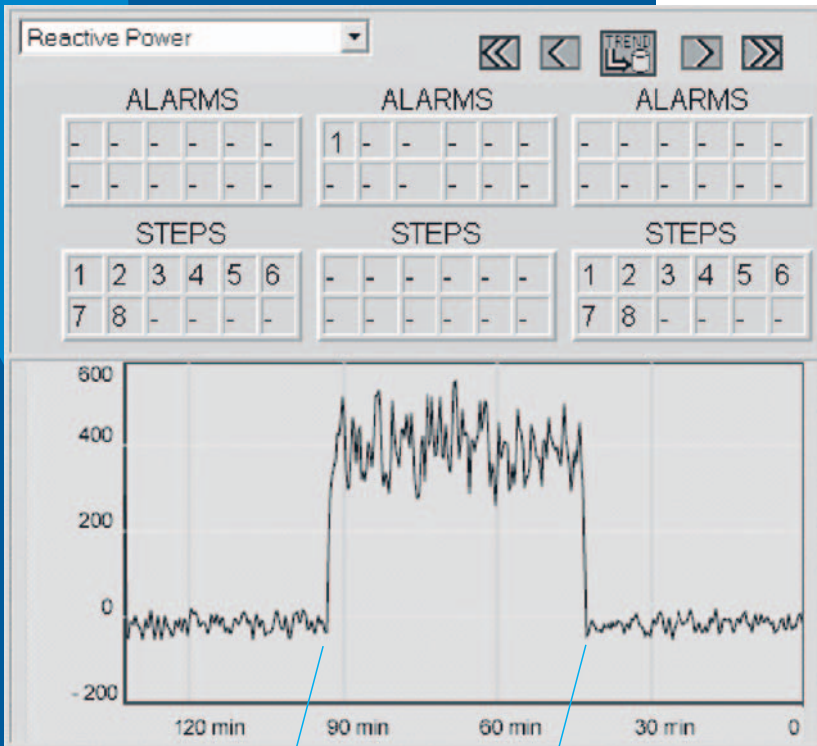


NC-Watch solution



An example of monitoring the outage of the capacitor bank



Capacitor bank off due to the missing control voltage for the contactors. Alarm 1 (out of steps) activated.

Control voltage restored. Alarm reseted.

Identify your reactive power usage

Nokian Watch solution makes it possible to know:

- How much reactive power you use.
- When you use reactive power.
- Where you use reactive power.

Management means lower costs

Nokian Watch solution makes it possible to:

- Manage hardware conditions.
- Manage the total energy bill.

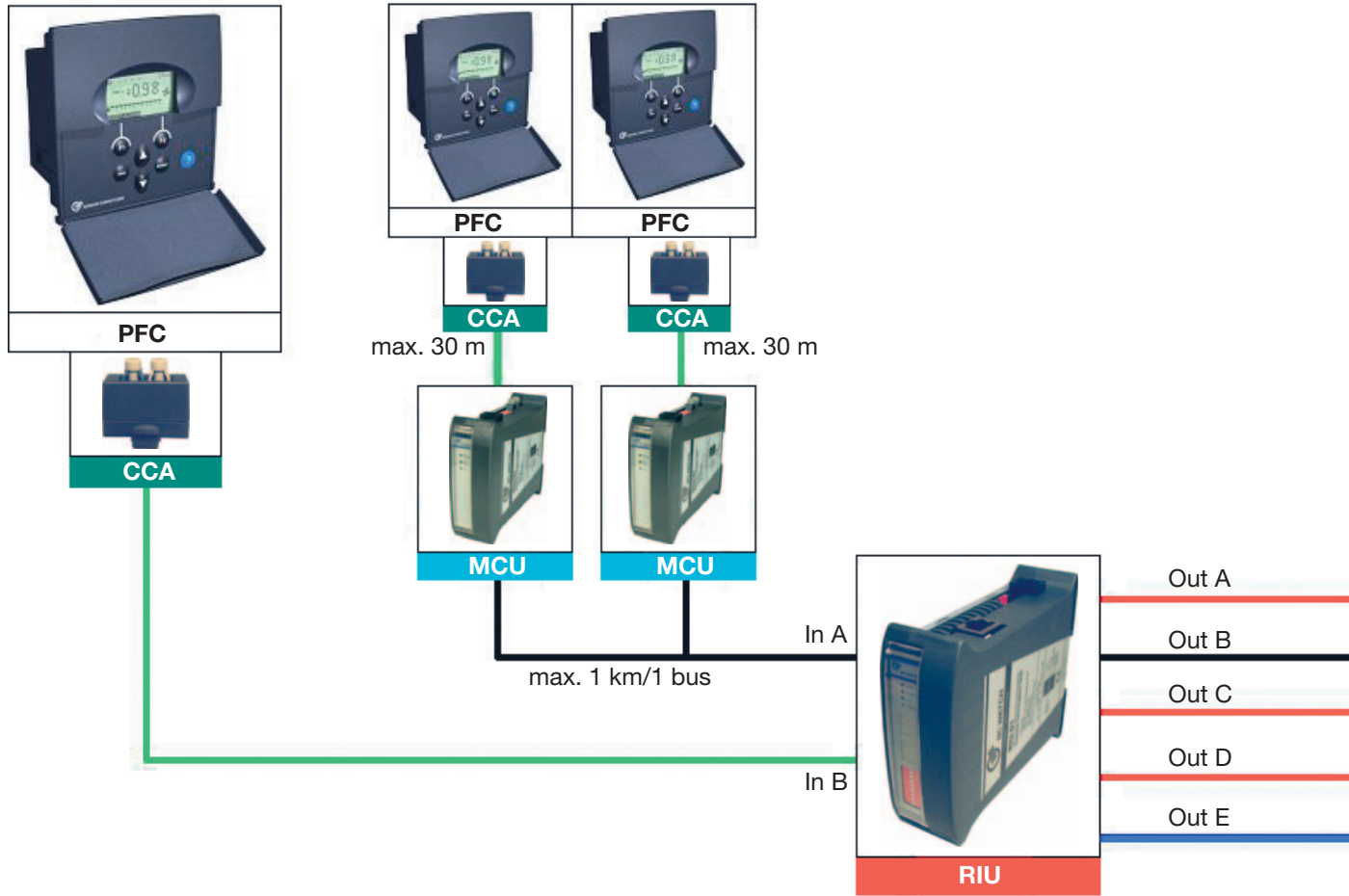
Available now

NC-WATCH solution is a cost-effective system for improving remote control supervision and the complete analysis of your network.

Connecting power factor controller to RIU

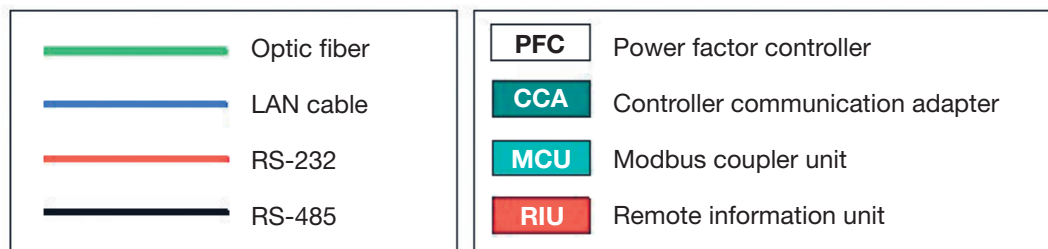
One controller is connected to the RIU using an optic fiber.

Multiple controllers are connected to the RIU using multiple MCUs and RS-485 buses.



In A and In B : Input connection alternatives

Out A - E : Output connection alternatives



Communicating with RIU

GSM modem connected to the RIU sends one or more SMS messages to the GSM phone.

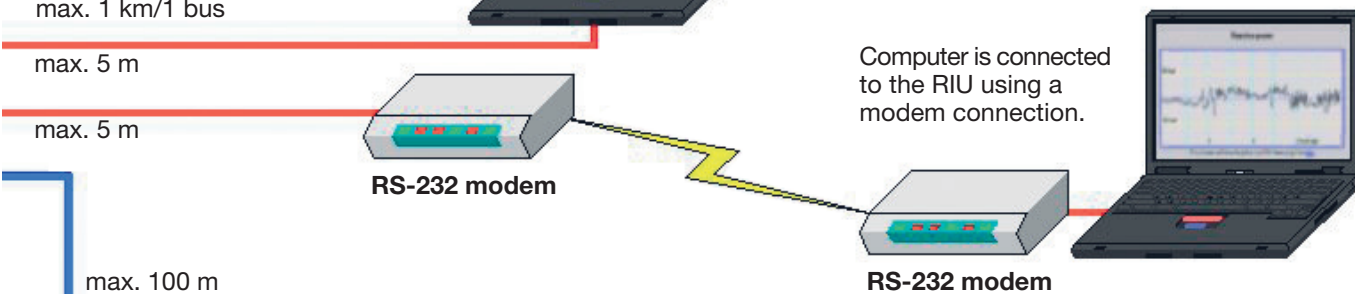


A computer, equipped with RS-485 adapter is connected to RIU using RS-485 bus.

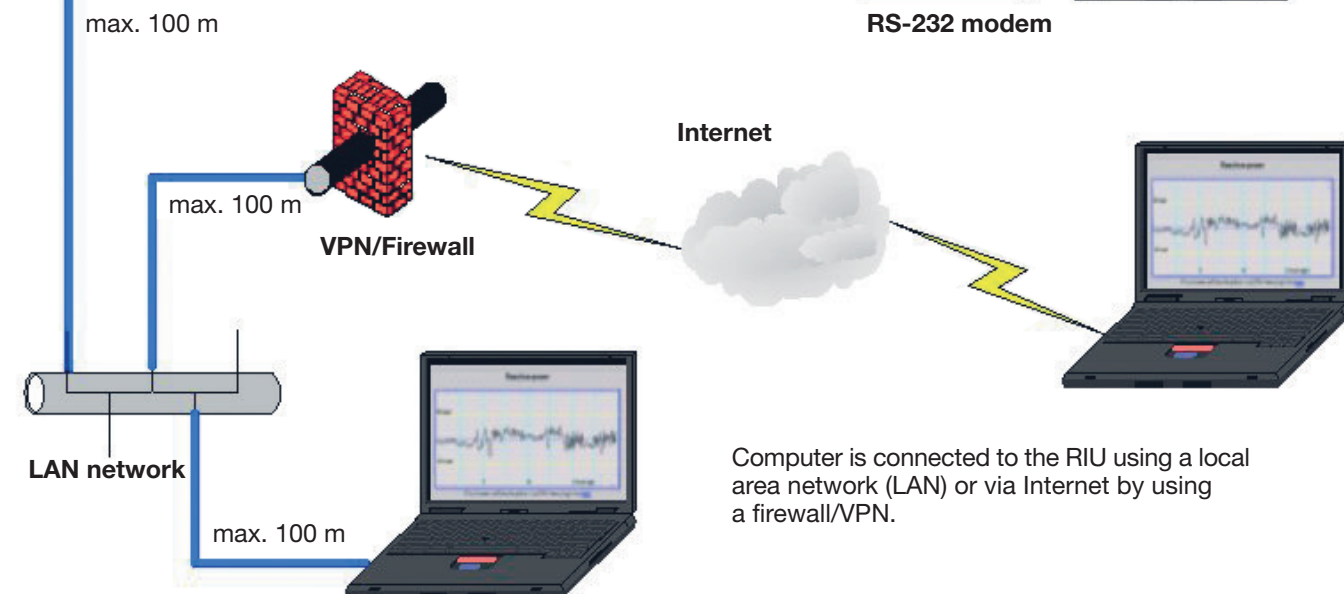
Computer is connected to the RIU using a serial connector (RS-232).



Computer is connected to the RIU using a modem connection.

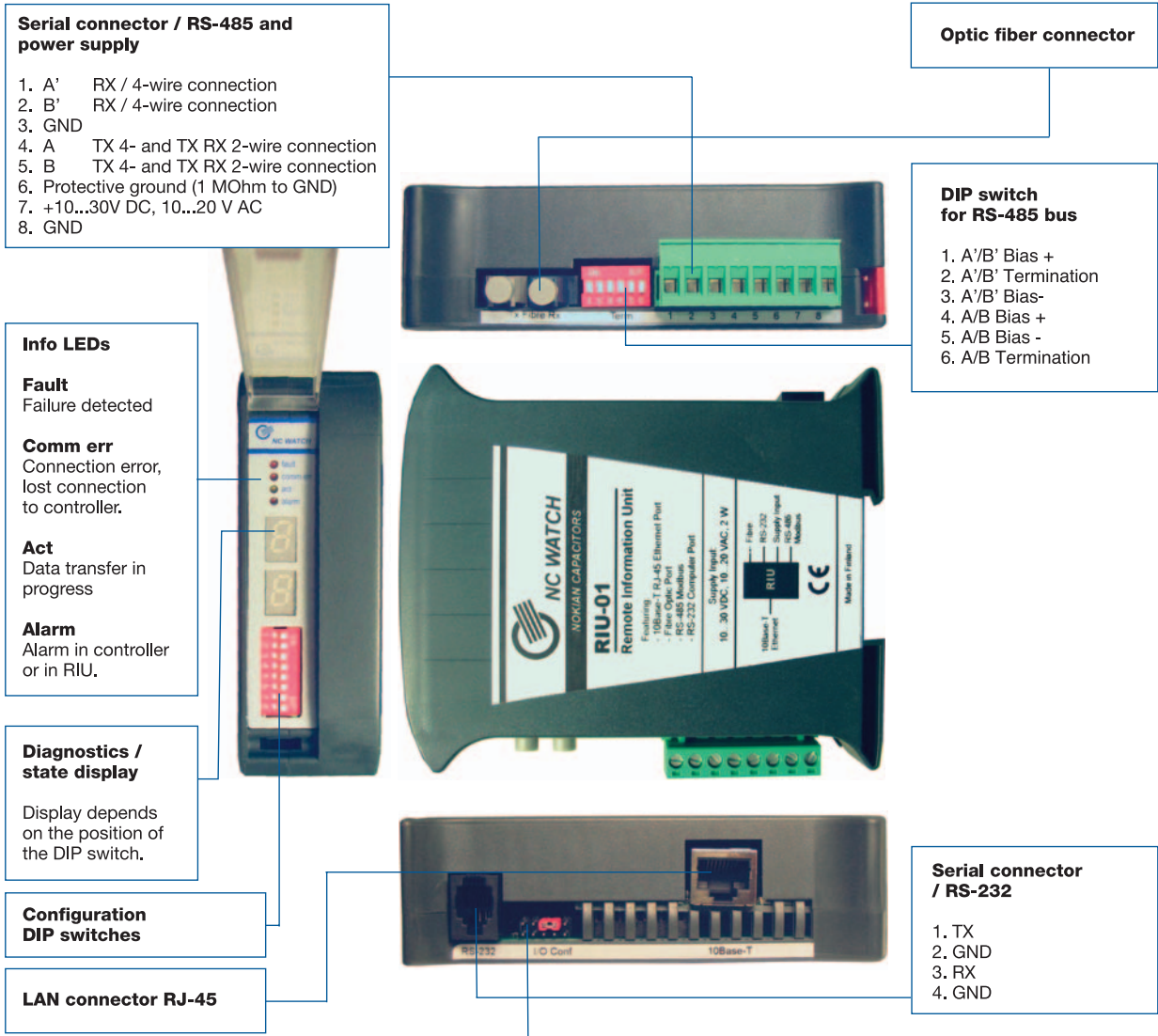


Internet

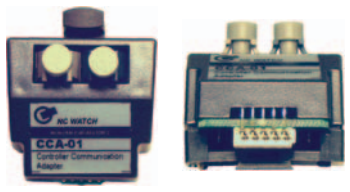


Computer is connected to the RIU using a local area network (LAN) or via Internet by using a firewall/VPN.

RIU (Remote Information Unit)



CCA (Controller Communication Adapter)



Jumper settings

	Port 1 - RS-485		Port 1 - Optic fiber Tx
	Port 1 - Optic fiber Rx		Port 2 - Optic fiber Tx
	Port 2 - Optic fiber Rx		Not allowed
	Port 2 - RS-232		RS-485 4-wire connection

In line with our policy of on-going product development we reserve the right to alter specifications.