

Communication interfaces

Network analysis



- DIRIS Am
- DIRIS A20
- DIRIS A40 / DIRIS A41
- ▶ **Communication interfaces**
- DIRIS VISION software
- CONTROL VISION software
- BILLING APPLICATION software

▶ Connecting the RS485 link

RS232 / RS485 interface

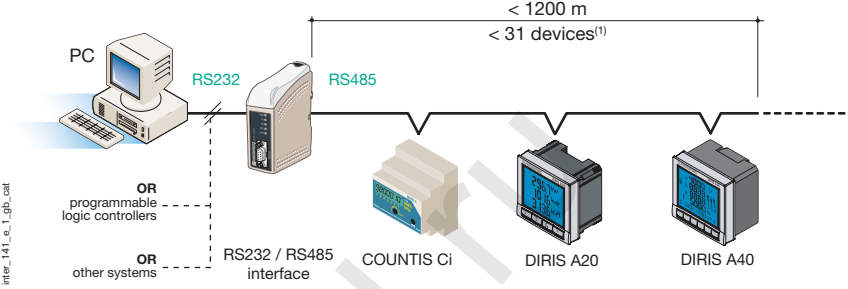


Function

If the PC is equipped with an RS232 port, the interface will convert RS232 signal into RS485. 31 devices can be connected to the interface over a distance of 1200 m at 9600 bauds.

Reference

| Auxiliary power supply U_s | Frequency | Reference |
|----------------------------------|-----------|-----------|
| 95 ... 240 VAC / 110 ... 250 VDC | 50 Hz | 4899 0100 |



(1) Beyond these characteristics, use an « RS422 / RS485 repeater ».

USB / RS485 interface

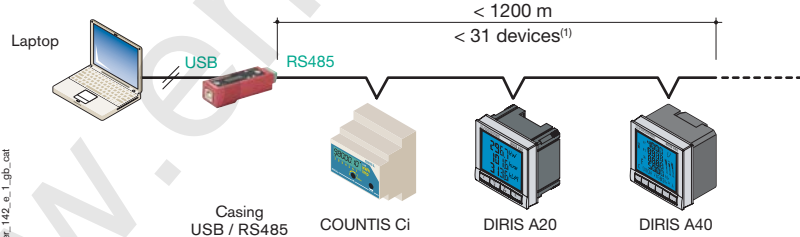


Function

If the PC is not equipped with a serial port, the interface will connect via the USB port to obtain an RS485 communication port. Recommended for local use and not for permanent installation.

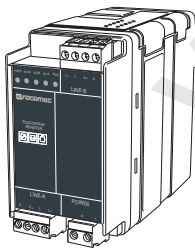
Reference

| External casing USB of RS485 interface | Reference |
|--|-----------|
| | 4899 0110 |



(1) Beyond these characteristics, use an « RS422 / RS485 repeater ».

RS422 / RS485 repeater



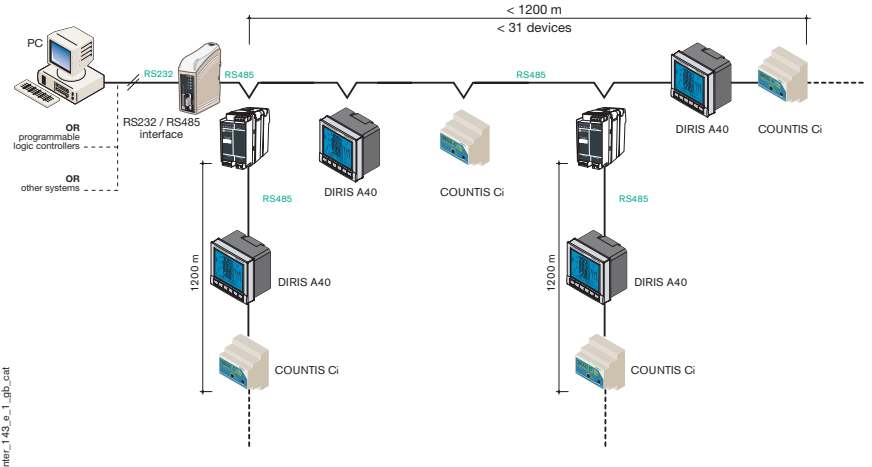
Function

In some applications the maximum distance and/or the maximum number of devices can be exceeded. One solution to this technical restriction is to install an interface which amplifies the signal over a further 1200 m (at 9600 bauds) for 31 devices.

Moreover, it allows you to create a new branch on the network. This means it is possible to reduce the length of cable required to connect the devices by avoiding back and forth cabling.

Reference

| Auxiliary power supply U_s | Frequency | Reference |
|----------------------------------|-----------|-----------|
| 95 ... 240 VAC / 110 ... 250 VDC | 50 Hz | 4899 0120 |



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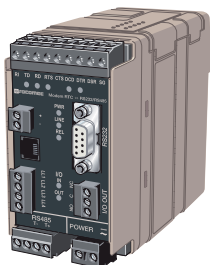


Services +
 > Audit
 > Setting up
 > Training
 See page IV



► **Using the telephone network**

RTC / RS232-RS485 modem



inter_014_a

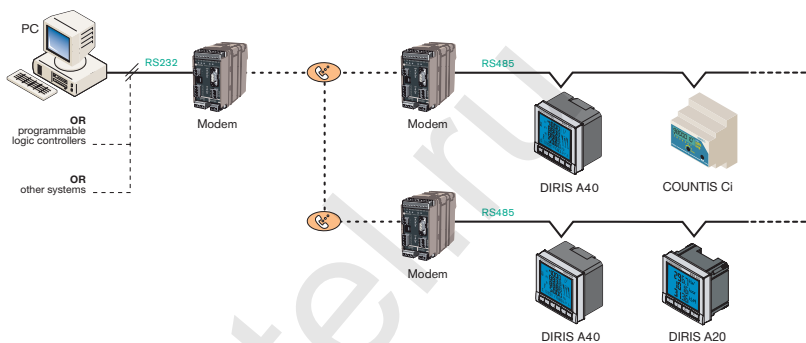
Function

On some sites, it is impossible to connect all the DIRIS's using a single cable. Indeed, the distances may be such that the investment would be too costly. In this case, a modem may be used.

This modem can be configured as a master (RS232: connected directly to PC) or slave (RS485: connected to slave devices, via network).

References

| Auxiliary power supply U_s | Frequency | Reference |
|--------------------------------|-----------|-----------|
| 22 ... 240 VAC / 12 ... 48 VDC | 50 Hz | 4899 0200 |



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► **Using the Ethernet network**

Ethernet / RS232-RS485 interface



inter_037_a

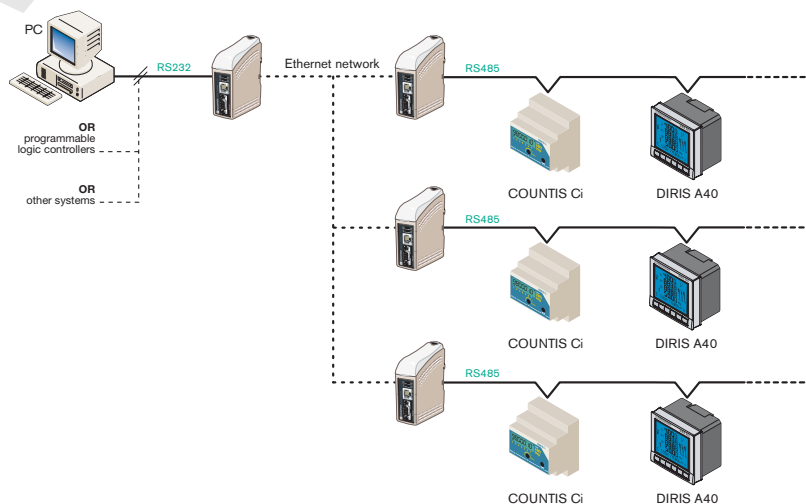
Function

These interfaces allow the connection onto an Ethernet network with the master on one side and the RS485 slave network on the other side.

This interface can be configured as a master (RS232: connected directly to PC) or slave (RS485: connected to slave devices, via network).

References

| Auxiliary power supply U_s | Frequency | Reference |
|------------------------------|-----------|-----------|
| 230 VAC / 12 ... 48 VDC | 50 Hz | 4899 0300 |



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