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# Presentation

## Contents of package

This optional equipment is made up of the following components (see figure 1):

- ▶ one acquisition card,
- ▶ one DB9/DB9 RS232 serial communications cable,
- ▶ one installation and user manual for the acquisition card (this document).

## Storage

If the card is stored prior to installation, it should remain in the original packing in a dry place. The storage temperature range is  $-40^{\circ}\text{C}$  to  $+70^{\circ}\text{C}$ .

## Recycling of packing materials

Packing materials must be disposed of in compliance with applicable laws and regulations.

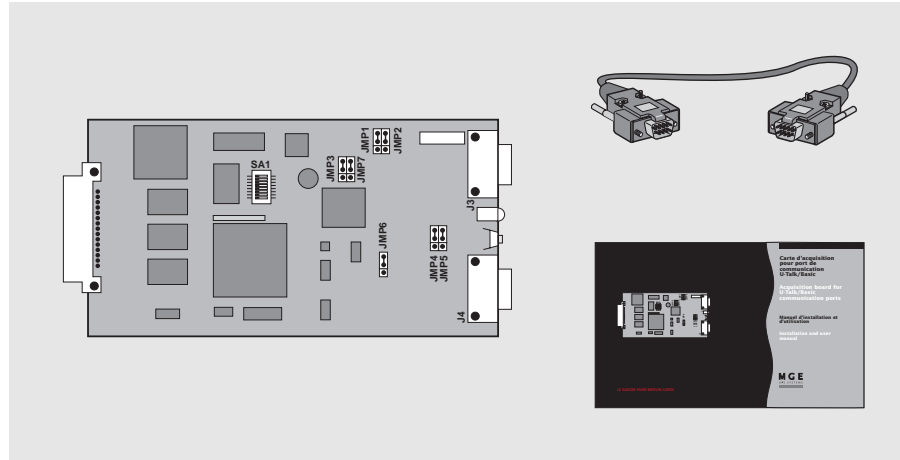


Fig. 1

## Function

The acquisition card is an optional part of the MultiSlot module (see the installation and user manual for the MultiSlot module, ref. 5102919700).

The card acts as the interface between the I2C bus of the MultiSlot module and the supervised UPS (Uninterruptible Power Supply).

Using the MGE UPS SYSTEMS proprietary protocol (U-Talk) or the Basic protocol (dry contacts), it acquires measurements, status information and alarms from the UPS to which it is connected and transmits the data to the I2C bus of the MultiSlot module in which it is installed.

## Overall view

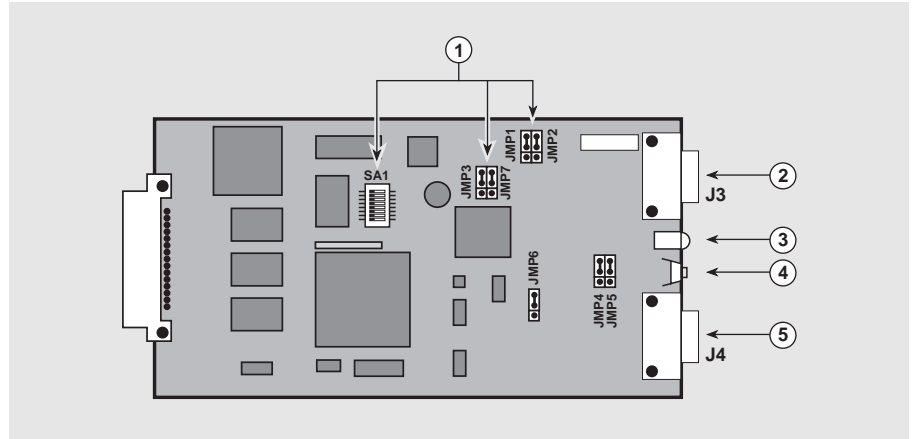


Fig. 2: Acquisition card for the MultiSlot module.

### Key:

- ① jumpers and DIP switches for acquisition card settings,
- ② UPS U-Talk/Basic acquisition port,
- ③ green light indicating the operation of the acquisition card,
- ④ reset button,
- ⑤ unused port,

Jumpers JMP4, JMP5 and JMP6 are not used for this application.

# Card settings

## Connection to a UPS with a U-Talk port

The default card settings are for this type of connection. Figure 3 shows the corresponding positions of the jumpers and DIP switches. Before changing any of the DIP switches on the SA1 block, the plastic protection sheet must be removed.

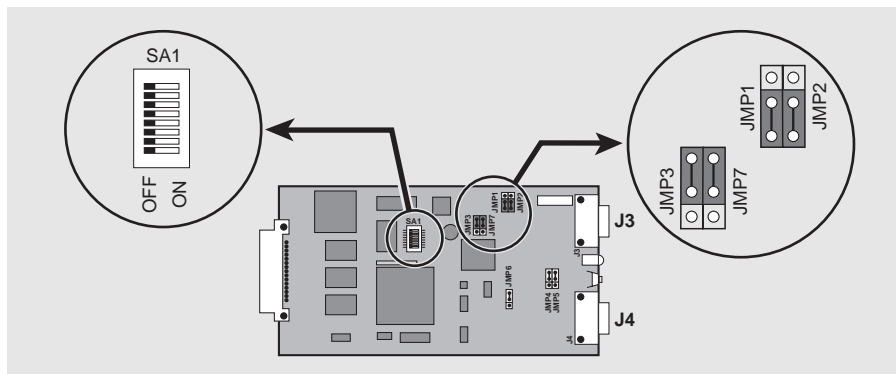


Fig. 3

## Connection to a UPS with a Basic port

Card settings must be modified as indicated in figure 4 for communication with a UPS equipped with a Basic port. Before changing any of the DIP switches on the SA1 block, the plastic protection sheet must be removed.

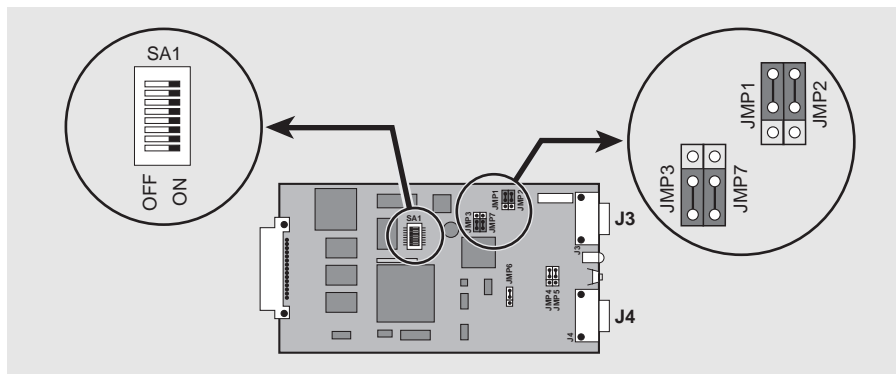


Fig. 4

# Installation

The acquisition card may be installed in any of the four slots in the MultiSlot module. No particular order is required (see the manual of the MultiSlot module). Only the DB9 J3 connector on the acquisition card may be used for connection. Connector J4 is reserved for future applications.

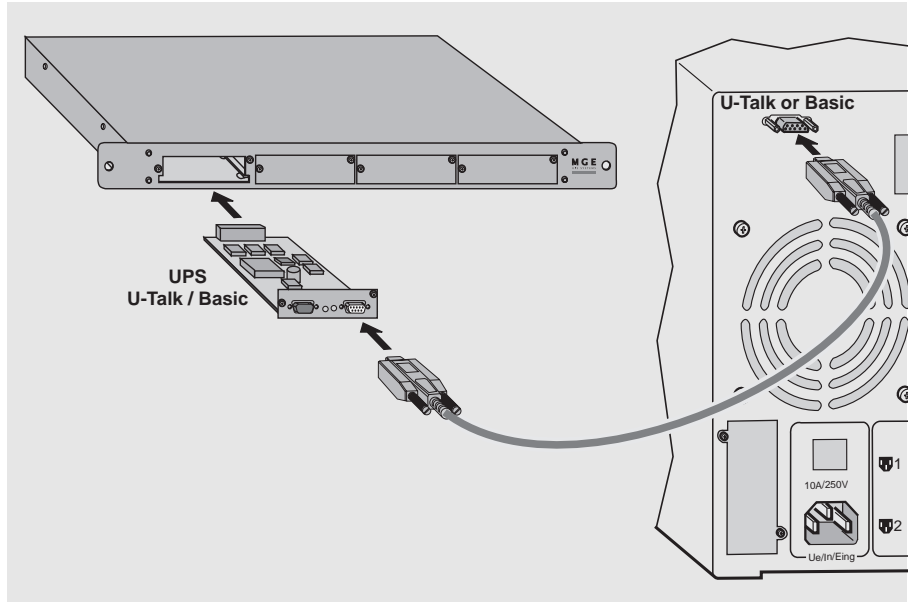


Fig. 5

# Operation

When the acquisition card is installed in the MultiSlot module, the following occurs:

- ▶ the green light ③ on the acquisition card flashes once every second during the start-up phase,
- ▶ if communications cards are connected to the module, the green light ③ flashes more rapidly and irregularly during initialization of the dialogue on the I2C bus of the MultiSlot module,
- ▶ in U-Talk mode, once dialogue with the UPS has been initialized, the green light ③ flashes when data is exchanged between the UPS and the acquisition card,
- ▶ in Basic mode, the green light ③ flashes every three seconds.

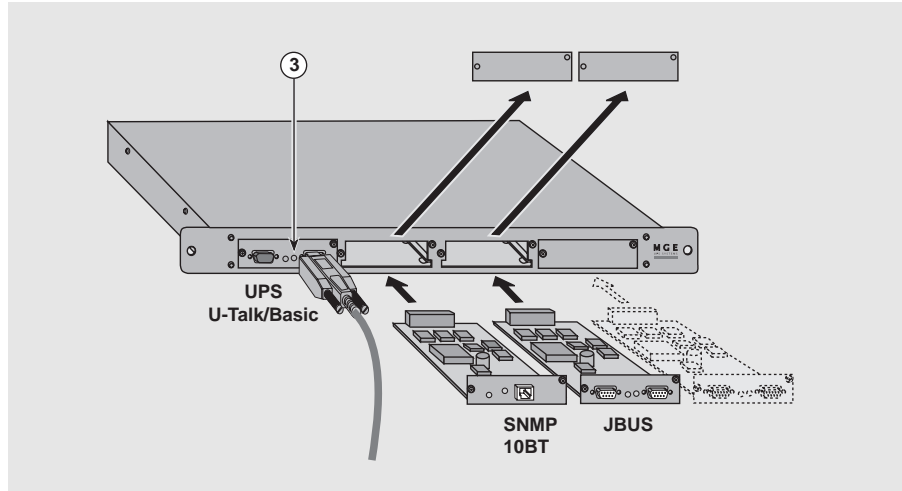


Fig. 6

# Troubleshooting

## Operating anomalies

### AC-power problem

The green light ③ on the acquisition card remains off:

- ▶ check the supply of power to the MultiSlot module,
- ▶ check that the acquisition card is correctly installed (fully inserted) in the module,
- ▶ press the reset button ④ on the acquisition card.

### Start-up problem

The green light ③ on the acquisition card remains on: press the reset button ④ on the acquisition card.

## Cable replacement

If the communications cable supplied with the acquisition card is lost or damaged, a cable wired as indicated in figure 7 may be used.

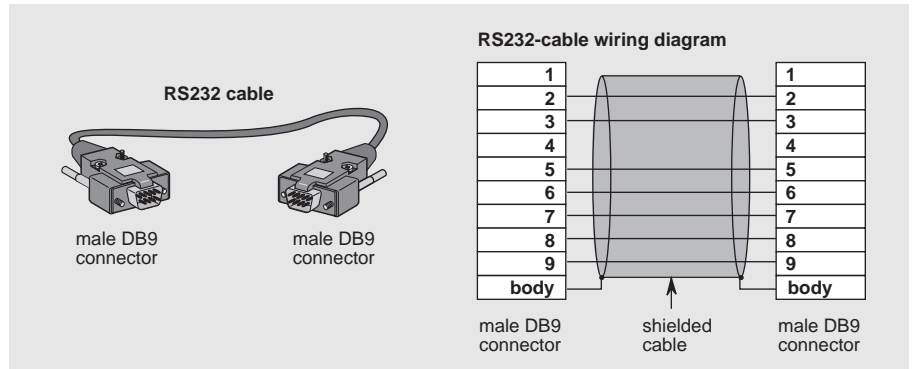


Fig. 7

If the problem continues, contact our after-sales support department.

# Appendices

## Glossary

**Basic:** information exchange protocol using dry contacts,

**I2C:** multi-point and multi-master communications protocol and bus,

**JBus:** master-slave communications protocol using a point-to-point (RS232) or multi-point (RS485) serial link,

**SNMP:** Ethernet communications protocol,

**UPS:** Uninterruptible Power Supply,

**U-Talk:** point-to-point ASCII communications protocol using an RS232 serial link. U-Talk is the MGE UPS SYSTEMS proprietary protocol.

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