



16 keys alphanumeric keypad

Functional characteristics

The FD-KA01 is part of the OrangeLink and is suitable to enter numeric or alphabetic keys for:

- ◆ the PIN code (Personal Identification Number)
- ◆ entering “reasons” associated to the Time & Attendance clock-in/out.
- ◆ Asking information on Time & Attendance balances (enquiries)

The FD-KA01 has also following characteristics:

- ◆ Visual indications through 4 multicolored LEDs (red/green/yellow) behind the function keys (F1..F4, “C” and “E”nter). The green or red light
- ◆ Audible signal through an internal buzzer
- ◆ Connection to the FD-BUS using SPP (Serial Proprietary Protocol) at a speed of 115.2 Kbaud (default) or 19.2 Kbaud
- ◆ Address selection for the reader by means of a rotary switch on the back of the device
- ◆ Double connector (internally in parallel) for easy reconnection to the FD-BUS.

Protection

The equipment is protected against the following events:

- ◆ polarity reversal on the cables (RJ45) connecting to the FD-BUS
- ◆ voltage surge in the power supply
- ◆ negative voltage peaks at outputs with inductive loads

Modes of Operation

Connected to the Field Manager or to the XPoint, the FD-KA01 can be used to have a more secure Access Control allowing the PIN code and the duress code to be entered together other identification media. In a Time & Attendance application the FD-KA01 can also be used to add information to the time record entering reasons or to get information on balances or the buffered clock-in/out.

Visual indicators

The FD-DA01 module can give the user indications by means of leds behind the function keys. Each led can lit:

- ◆ red
- ◆ yellow
- ◆ blue

The most common indications are as follows:

- ◆ off: the function key (F1..F4) is not active
- ◆ blue: the function key (F1..F4) is active;
- ◆ all yellow: communication failure;

Parameter	Description
Dimensions	100x130x40mm
Weight	250g
Mounting	Wall bracket
Power supply: internal circuit	From 8V _{DC} to 14V _{DC} 65 mA nominal (at 14V _{DC})
Power supply: optically isolated section on FD-BU	From 8V _{DC} to 14V _{DC} 0.8 mA nominal (at 14V _{DC})
Processor	P89C662 Philips at 11.0592 MHz
Connections	Power supply input FD-BUS (2 RJ45s in parallel) Remote monitoring input for FD-PA01 power supply module Monitored power outputs (4) Supervised inputs (4) Tamper input
Environment protection	IP55
Operating temperature	0 ↔ 50°C
Relative humidity	Up to 90% without condensation
FD-BUS connection	2 RJ45 ports in parallel Differential RS485 serial interface Baud rate (nominal) 11,5000 baud Optically isolated floating ground (500V insulation)
Address selector	Rotary switche 0..15
Other functions	Protection against reversed polarity at input Functional diagnosis of outputs with alarm indicator in the event of faults
Compliance	 EN 55022, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-4-8