



## Programmable panels RD Part number 88970474



- Compact panels, backlit LCD, for industrial environments, for use with 24 V DC Millenium
- LED backlighting with 3 colours : green, orange and red, for improved visibility
- Display of predefined objects : text, data, bar charts, trend curve
- TrueType fonts for better display quality in Latin, Cyrillic, Greek, Simplified Chinese or Katakana
- Direct communication via the Millenium 3 programming port or via Modbus protocol
- Simple user-friendly programming using Vijeo Designer Lite (compatible with Windows XP Professional or 32-bit Vista Professional)

### •N401

- Resolution : 122 x 32 pixels
- 1 line of 5 characters to 4 lines of 20 characters

### •RT511

- Touch panel (Touch-screen matrix 11 x 5 cells)
- Resolution : 198 x 80 pixels
- 2 lines of 5 characters to 10 lines of 33 characters

## Part numbers

|          | Type | Designation                                                  |
|----------|------|--------------------------------------------------------------|
| 88970474 | RD   | N401 "Modbus" user kit (N401 panel, Modbus RJ45 cable →N401) |

## Specifications

### General characteristics

#### Environmental characteristics

|                                       |                                                                                                     |                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Certifications                        | EC, UL                                                                                              | EC, UL                                                                                              |
| Conformity to standards               | IEC 61131-2, UL508, CSA C22-2 no. 14                                                                | IEC 61131-2, UL508, CSA C22-2 no. 14                                                                |
| Operating temperature                 | 0 →+55 °C                                                                                           | 0 →+55 °C                                                                                           |
| Storage temperature (°C)              | -20 →+60 °C                                                                                         | -20 →+60 °C                                                                                         |
| Relative humidity                     | 0 →85 % (without condensation)                                                                      | 0 →85 % (without condensation)                                                                      |
| Protection rating                     | Front : IP65 according to IEC 60529, Nema 4X ("out door use")<br>Rear : IP20 according to IEC 60529 | Front : IP65 according to IEC 60529, Nema 4X ("out door use")<br>Rear : IP20 according to IEC 60529 |
| Shock resistance                      | According to IEC 60068-2-27, semi-sinusoidal impulse 11 ms, 15 gn on 3 axes                         | According to IEC 60068-2-27, semi-sinusoidal impulse 11 ms, 15 gn on 3 axes                         |
| Vibration resistance                  | IEC 60068-2-6, ± 3,5 mm, 2 →8,45 Hz, 1 gn 8,45 →150 Hz                                              | IEC 60068-2-6, ± 3,5 mm, 2 →8,45 Hz, 1 gn 8,45 →150 Hz                                              |
| Resistance to electrostatic discharge | According to IEC 61000-4-2, level 3                                                                 | According to IEC 61000-4-2, level 3                                                                 |
| Resistance to HF interference         | According to IEC 61000-4-3, 10 V/m<br>According to IEC 61000-4-4, level 3                           | According to IEC 61000-4-3, 10 V/m<br>According to IEC 61000-4-4, level 3                           |

#### Electrical characteristics

|                |                 |                 |
|----------------|-----------------|-----------------|
| Supply voltage | 24 VDC          | 24 VDC          |
| Voltage limits | 18 →30 VDC± 5 % | 18 →30 VDC± 5 % |
| Consumption    | 5 W max.        | 5 W max.        |

#### Mechanical characteristics

|                        |                                                                               |                                                                               |
|------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| Dimensions (l x h x w) | 132 x 74 x 43 mm<br>Useful screen area (W x H) : 17.36 x 59 mm                | 132 x 118 x 39 mm<br>Useful screen area (W x H) : 40 x 89 mm                  |
| Panel cut-out          | 119,4 x 63 mm± 0,4                                                            | 119,6 x 105,2 mm± 0,5                                                         |
| Density                | 1 →5                                                                          | 1 →5                                                                          |
| Mounting               | Flush-mounted, fixed with 2 spring clips supplied pressure-mounted for panels | Flush-mounted, fixed with 4 spring clips supplied pressure-mounted for panels |
| Weight (g)             | 380                                                                           | 550                                                                           |

#### Display characteristics

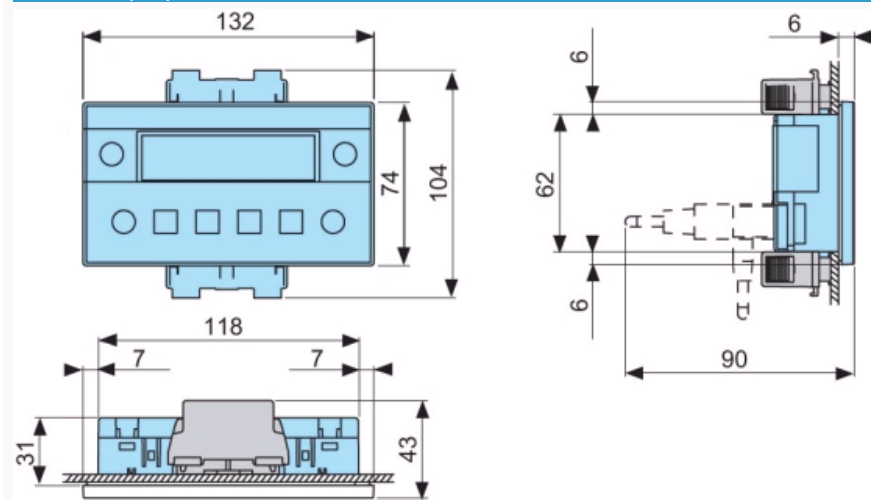
|                                   |                                                                                                                                                                                                |                                                                                                                                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description                       | High brightness backlit LCD<br>Resolution : 122 x 32 pixels<br>1 line of 5 characters to 4 lines of 20 characters<br>LED backlighting in 3 colours : green, orange, red<br>512 Kb flash memory | High brightness backlit LCD<br>Resolution : 198 x 80 pixels<br>2 lines of 5 characters to 10 lines of 33 characters<br>LED backlighting with 3 colours : green, orange, red<br>512 Kb Flash memory |
| Display unit touch-sensitive zone | NA                                                                                                                                                                                             | Matrix, 11 x 5 cells                                                                                                                                                                               |
| Language                          | English, French, German, Italian, Spanish                                                                                                                                                      | English, French, German, Italian, Spanish                                                                                                                                                          |
| Display details                   | Latin, Cyrillic, Greek, Katakana and Simplified Chinese                                                                                                                                        | Latin, Cyrillic, Greek, Katakana and Simplified Chinese                                                                                                                                            |
| Status indication                 | 6 LEDs                                                                                                                                                                                         | 13 LEDs + buzzer                                                                                                                                                                                   |
| Number of screens                 | 25 lines/page max.<br>Applications : 200 pages<br>Alarms : 256 pages                                                                                                                           | 10 lines/page max.<br>Applications : 200 pages<br>Alarms : 256 pages                                                                                                                               |
| Connection                        | RS 232C/RS 485<br>Removable 3-pin screw terminal block<br>Direct link using the Millenium programming port via the communication OR printer cable                                              | RS 232C/RS 485<br>Removable 3-pin screw terminal block<br>Direct link using the Millenium programming port via the communication OR printer cable                                                  |

|                                                  |                                          |                                    |
|--------------------------------------------------|------------------------------------------|------------------------------------|
| Connector : 25-pin female SUB-D (RS 232C/RS 485) | Connector : Female RJ45 (RS 232C/RS 485) |                                    |
| Connection : Multidrop                           | Connection : Multidrop                   |                                    |
| Protocol                                         | Modbus, Millenium 3 (SLIn & SLOut)       | Modbus, Millenium 3 (SLIn & SLOut) |

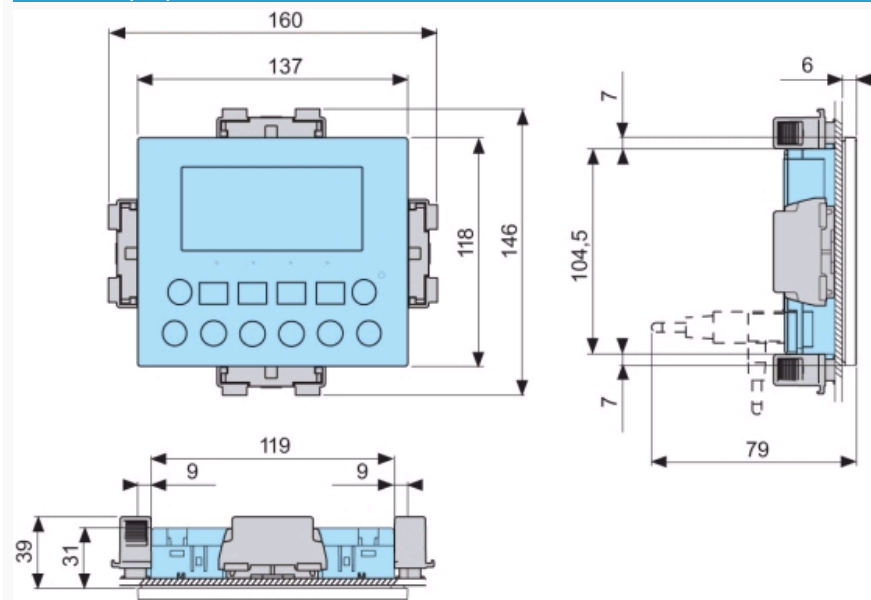
Accessories

| Type | Description                                                    | Code     |
|------|----------------------------------------------------------------|----------|
| MA   | Protective sleeves for N401 (in packs of 10)                   | 88970475 |
| MA   | Sheets of labels for N401 (in packs of 10 sheets of 6 labels)  | 88970476 |
| MA   | N401 front panel sealing kit (flush-mounting frame)            | 88970477 |
| MA   | Protective sleeves for RT511 (in packs of 10)                  | 88970485 |
| MA   | Sheets of labels for RT511 (in packs of 10 sheets of 6 labels) | 88970486 |
| MA   | RT511 front panel sealing kit (flush-mounting frame)           | 88970487 |
| MA   | Printer cable for N401 & RT511 DB9 →Mini-Din (RS232) *         | 88970489 |
| PA   | PC : USB →DB9 (RS 232) link cable                              | 88950105 |

Dimensions (mm)

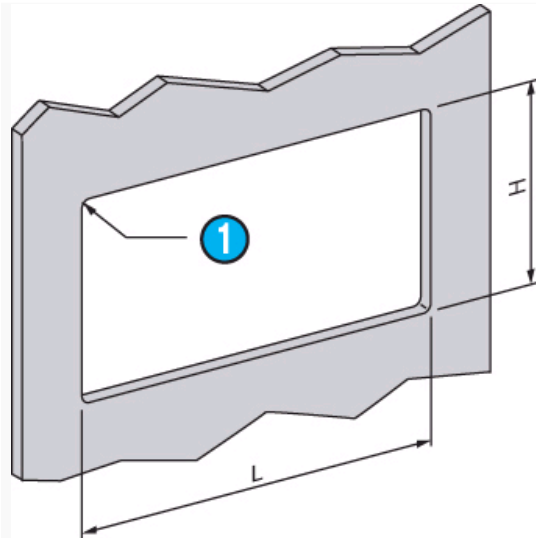


Dimensions (mm)



Dimensions (mm)

Panel cut-out

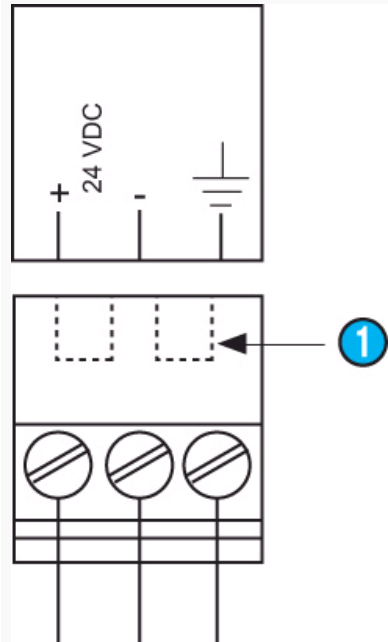


N401 : L = 119.4 ±0.4 H = 63 ±0.4 RT511 : L = 119.6 ±0.5 H = 105.2 ±0.5

| N° | Legend          |
|----|-----------------|
| 1  | R = 1.5 mm max. |

Connections

N401 & RT511



| N° | Legend                       |
|----|------------------------------|
| 1  | *** TRADUCTION MANQUANTE *** |