

# UM8 PRO CONTROLLER

Part No: 1100052



The UM8 Pro Controller is a DIN rail-mounted, modular building automation controller for smart homes, offices, and commercial spaces.

It manages lighting, HVAC, temperature readings and access control, with quick setup via QR code and the Bisly Installer App.

It features eight power relay outputs along with configurable control inputs/outputs, providing flexible integration options. The UM8 Pro is purpose-built for seamless operation within the Bisly Building Automation infrastructure. Ideal for: HVAC, lighting, blind/shade control and access control.

## Device Specifications

<b>Supply Voltage</b>	24VDC±25%, reverse polarity protected
<b>Power Consumption</b>	max. 3W @24V, internal overcurrent protection at ca 1.2 A
<b>Power Outputs</b>	+5V OUT (max 100mA)
<b>Relay Outputs</b>	<ul style="list-style-type: none"> <li>• 4 x SPST (NO) relay, 250VAC 16A active load Ports: CH1, CH2, CH7, CH8</li> <li>• 4 x SPDT (NO/NC) relay, 250VAC 16A active load Ports: CH3, CH4, CH5, CH6</li> </ul>
<b>Open Collector Outputs</b>	4 x Open collector output, max 24VDC 300mA continuous
<b>PWM Outputs</b>	4 x PWM output, 100 Hz default frequency, 0-12V operation range Ports: PWM 1-4
<b>Digital / Analog Inputs</b>	<ul style="list-style-type: none"> <li>• 8 x Digital Inputs (+24VDC tolerant, internal 2kOhm pullup to +5VDC, active low level ≤ 2V) IN1 – IN8</li> <li>• 4 x Analog Inputs 0-15V measurement range, 4 mV resolution (12 bits) Ports: PWM 1-4</li> </ul>

## Device Specifications (continued)

<b>Interfaces</b>	<ul style="list-style-type: none"><li>• 10/100Mbps Ethernet interface</li><li>• 3 x RS-485 interface (no internal termination)</li><li>• 1-Wire Bus (Master device) Supports up to 20 x 1-Wire sensors (ex. temperature)</li></ul>
<b>Security</b>	<ul style="list-style-type: none"><li>• Bisly proprietary encrypted RS-485 communication</li><li>• Unique AES-128 encryption keys for each device</li></ul>
<b>Firmware update</b>	Over-The-Air Update capability
<b>Ambient operating temperature</b>	+5 ... 40°C
<b>Humidity</b>	max. 80% r.H. (non condensing)

## Product Characteristics

<b>Mounting type</b>	DIN rail according to EN 60715, 35mm
<b>Colour, finish</b>	Black, matte
<b>Flammability of casing</b>	Fire retardant according to UL94 V0

## Weight & Dimensions

<b>Weight</b>	338g
<b>Product dimensions</b>	136 x 120 x 63 mm

## Certifications & Standards

<b>Environmental protection class</b>	IP20
<b>Markings</b>	CE, RoHS, WEEE
<b>Directive compliance</b>	LVD, EMC, RoHS, WEEE

Devices must be installed and used in accordance with local regulations and Bisly installation guidelines. Incorrect installation may void warranty and cause malfunction.

Technical specifications are subject to change without prior notice as part of Bisly's continuous product development.