

# Invexs 170 readers

The Invexs 170 readers combine modern design with advanced functionality. Unique multiple card reading technology makes the readers capable of simultaneously reading different card technologies, which is extremely useful during migrations or when a company uses a mix of card technologies.

- Modern design, optionally with touch keys or screen
- Suitable for all commonly used access control systems and technologies
- Multiple output protocols
- For indoor use



## Modern design

The modern, stylish look of the Invexs readers perfectly matches contemporary office design. The optional high-quality touch keys on the Invexs 170 keypad are software-controlled and light up automatically when a valid pass is presented.

## “Multiple reader” technology

Invexs readers are capable of simultaneously reading Nedap, MIFARE and DESFire EV1 cards. Among many other advantages, this functionality makes smooth migration possible. Different cards can be stored in a mixed database, meaning that there is no need to change all the data overnight.

## Configuration and programming

Invexs readers are highly versatile in terms of their functionality and output, which can be configured to Wiegand, the RS485 protocol (AEOS-coded or 'plain') or to XS RF modulation.

Invexs readers are easy to configure and program. Aereco (AEOS REader COnfiguration) software, a special configuration tool for Invexs and other AEOS readers is used to generate the configuration file, which can then be deployed to the reader with a configuration card or using AEMON, a configuration program for AEOS AEPacks and software components.

## Invexs range

In addition to the Invexs 170, the Invexs 190 range is also available from Nedap.

## Technical specifications

Dimensions	L x W x H: 171 x 75 x 25 mm
Weight	Approx. 0.2 kg
Power consumption	12 VDC – 30 VDC, 70 mA @ 12 VDC, 35 mA @ 24 VDC
Environmental conditions	Temperature range: Operation: 0 - 55 °C. Storage: -30 - 65 °C Relative humidity: 10 - 93% (non-condensing)
Communication	- RS485 (encrypted AEOS or 'plain' protocol; user-definable) - Wiegand Data 0 and Data 1 (depending on configuration) - RF Modulator (120 kHz for AX1014 or AB350)
Inputs	3: open collector; buzzer and 2 LEDs
Detection range	Nedap: approx. 15 cm, MIFARE: approx. 5 cm, DESfire: approx. 1 cm
Reader wiring	- RS485: 2 x 2 x 0.25 mm <sup>2</sup> shielded, max. 1000 m - Wiegand: 4 x 0.25 mm <sup>2</sup> shielded, max. 150 m - Optional: 3 x 0.25 mm <sup>2</sup> (LEDs, buzzer)
IP rating	IP54

## Article number

	Type	Number	Keypad type	Number	+ Screen	Number
MIFARE reader	M170B	9833900	MK170B	9834230		
MIFARE Nedap reader	MN170B	9834060	MNK170B	9833730		
MIFARE DESfire reader	MD170B	9834400	MDK170B	9834680		
MIFARE Nedap DESfire reader	MND170B	9899570	MNDK170B	9838761	MNDKS170B	9938796