

# AMR170 NFC Contactless Smartcard Readers

The **AMR170** family of smartcard readers are designed with a fresh new look for a new generation of users. This family of readers embodies the latest Near Field Communication (NFC) technology, which supports the industry standard contactless smartcard operations in compliance with ISO 14443 Type A/B , FeliCa and CEPAS.

**AMR170** family line includes various user interface options including a simple short-range reader only, a reader with keypad entry, and a full featured reader that comes complete with keypad and LCD.

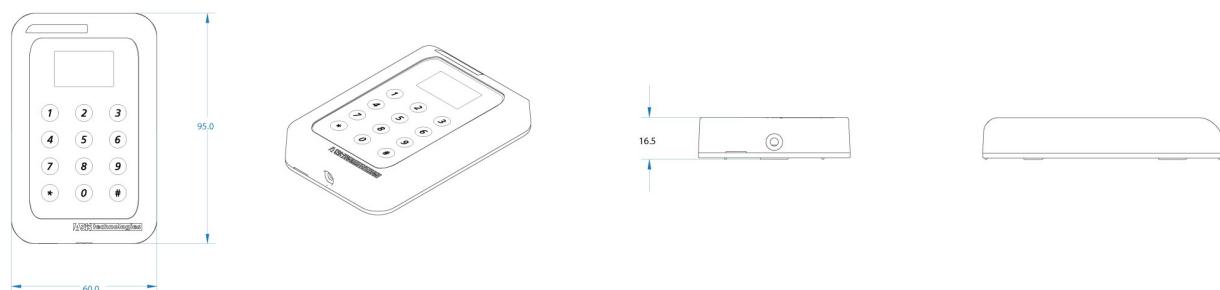
Each reader is equipped with both RS485 and Wiegand communication interface for easy integration into a wide spectrum of applications, while allowing easy migration from any existing solution.



## Key Features

- Incorporates Near Field Communications (NFC) technology
- Supports industry standard contactless smartcard (up to 64bit) in compliance with
  - ISO 14443 Type A (MIFARE STD, MIFARE UL, MIFARE DesFIRE)
  - ISO 14443 Type B (CEPAS – new *EZLink* and *NETs* card)
  - FeliCa (*old EZLink card*)
  - CEPAS
- Graphics icon-based LCD display for language independent user friendly interface
- Operational convenience with smartcard level security through contactless smart card technologies
- Flexible data communications options with either RS485 or Wiegand communication interface
- Positive audio-visual feedback to user operations provided by large tri-colored indicator and multi-tone electronic buzzer
- Modern & elegant designer casing to suit any décor

## Mechanical Diagram



## Technical Specifications

| Specifications*            | AMR171W/R   | AMR175W/R  |
|----------------------------|---|--|
| Description                | NFC Contactless Smartcard Reader                                      | NFC Contactless Smartcard Reader with keypad & LCD |
| Feature                    | Read Card, PIN  | Read Card, PIN, Duress, Hold                       |
| PIN Duress Support         | No  | Yes  |
| Read Range                 | 2"/50mm   |  |
| Max Bit Length             | 64  |  |
| Wiegand bit length support | 26, 32, 37, 40, 56, 80, 168 (ASIS) bits format and 8-digit 32, 37, 40 |  |
| Communication Interface    | Wiegand, RS485  |  |
| LED Indicator              | Green/ Red/ Amber   |  |
| Buzzer                     | Multitone   |  |
| LCD Display                | -   | 96 x 64 graphic LCD                                |
| Keypad                     | -   | 3 x 4 keys   |
| Termination                | 300 mm pigtail cable  |  |
| RS485 Support              | Addr 80H to 8FH (16 max)  |  |
| Environmental              | Weatherproof  |  |
| Mounting                   | Hook-on bracket   |  |
| Color                      | Black/ Warm Gray  |  |
| Input Voltage              | 12 - 24 VDC   |  |
| Current Consumption        | 100 mA at 12 VDC max  | 200 mA at 12 VDC max                               |
| Dimensions (H x W x D)     | 95 x 60 x 16.5 mm   |  |
| Weight                     | 200 g   | 350 g  |
| Operating Temperature      | 0°C to 50°C   |  |

\*Specifications are subjected to changes without prior notice

## AMR175 Reader Graphics

|                    |  |                |  |
|--------------------|--|----------------|--|
| Access Grant       |  | Door Locked    |  |
| Access Denied      |  | Fire Activated |  |
| Access Invalid     |  | Box Tamper     |  |
| Door Open Too Long |  | PIN Mode       |  |
| Door Force Open    |  | Pre-Alarm      |  |
| Free Access        |  |                |  |

## Ordering Information

| Model No.   | Description  |           |
|-------------|--|-----------|
| AMR171W/R-B | AMR170 NFC Smartcard Reader only (Black)           | (2"/50mm) |
| AMR171W/R-G | AMR170 NFC Smartcard Reader only (Beige)           | (2"/50mm) |
| AMR175W/R-B | AMR170 NFC Smartcard Reader w/keypad & LCD (Black) | (2"/50mm) |
| AMR175W/R-G | AMR170 NFC Smartcard Reader w/keypad & LCD (Beige) | (2"/50mm) |