RS485 READERS

For Cards or Tokens
AR-737HB-RAY
VR-RAY-S
VR-RAY-F

- High Visibility Front.
- Raised Token Logo.
- RS485 communication Interface.
- Up to 1000metre Cable Run.
- Waterproof.
- Stainless steel Vandal Resistant Housing available.
- Bi- colour LED and Sounder.
- EM4001/EM4012 compliant tokens.
- Power Requirement <1.5w
- Operating Temperature: −20 to +75°C.
- Standard Colour: Pearl grey with yellow and black front.
- Output for local lock relay

The DDA compliant AR-737HB-RAY RS485 proximity reader for card or token is available in standard and vandal resistant versions for surface or flush mounting.

The AR-737HB-RAY proximity reader has been designed to operate with Controller AR-727HB-RAY or Master Controller AR-716E via an RS485 link to enable cable runs of up to 1000 metres to be used between controller and reader. This reader has a high visibility/contrast yellow and black front with raised token logo to assist visually impaired people. It has a built-in LED and sounder to indicate acceptance or rejection of a token/card. The reader is available in standard form for mounting directly on a wall or similar surface with a clip-on protective cover. Although the reader is waterproof and fairly robust, it is recommended that the terminals at the rear are protected from condensation with a silicone sealant. The reader can also be provided with a vandal resistant stainless steel case for surface (VR-RAY-S complete) or flush mounting (VR-RAY-F complete). Both VR versions use a standard single way, 35mm deep, metal, electrical back box.

This reader operates in a similar way to AR-737H in that it has an output that can be used to operate a local lock relay if this is preferred to using the lock relays in the Controller.

Note: Diodes should always be fitted across the lock inputs in accordance with best practice.

RAYTEL SECURITY SYSTEMS

Specification

Mode No.	AR-737HB-RAY Specification
FR Frequency	125KHz / 150KHz
Power Requirement	<1.5W
Voltage	9-16VDC
Communication Interface	RS-485
Baud Rate	9600 bps (N, 8, 1)
Operation Temperature	−20°C to +75°C
Proximity Reader Range	5-8cm(125KHz) / 5-8cm(150KHz)
Supported Token	EM4001 / EM4012 Compliant
Indicator	1 bi-colour LED and 1 beeper
Waterproof	Yes
Dimension (mm)	65(L) x 65(W) x 18.5(H)
	60(L) x 60(W) x 18.5(H)
N.W. / G.W. (g)	80±10 / 110±10
Housing Material	ABS

Colour Zones

In those cases where customers require different levels of access for members of staff, the controllers can be programmed to give different levels of access to the proximity cards or tokens. The plastic cover for the proximity reader for each area can be supplied in a colour equating to a particular level of access. Those tokens giving access to an area should be fitted with a self-adhesive label of the same colour as the reader cover.

Four additional colour zones are offered as standard but more could be made available to special order. Where proximity ID cards are used, the colours for the zones could be included in the printing of the cards.
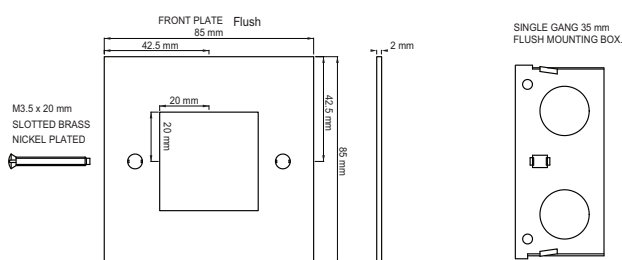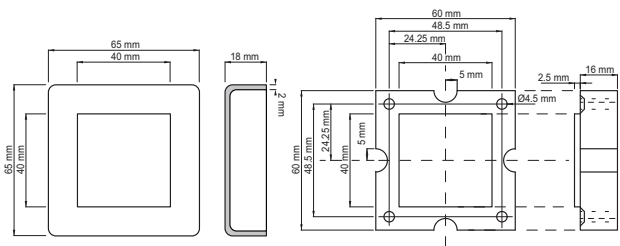
Proximity Reader (Card / Token)
AR-737HB-RAY
- **Networking**
- **Waterproof**
- **ABS**

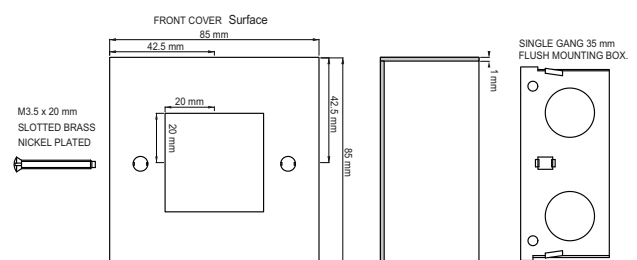See Accessories Page for Colour Zone ordering information.

Dimensions

Proximity Reader (Card / Token)
VR-RAY-F
- **Networking**
- **Waterproof**
- **Vandal Resistant**
- **Flush Mounting**

VR-RAY-F Dimensions

Proximity Reader (Card / Token)
VR-RAY-S
- **Networking**
- **Waterproof**
- **Vandal Resistant**
- **Surface Mounting**

VR-RAY-S Dimensions

Southern Office: Raytel House, Brook Road, Rayleigh, Essex SS6 7XH. Tel: 01268 749310 / Fax: 01268 749315

Northern Office: Unit 3, Block 5, Oakbank Industrial Estate, Garscube Road, Glasgow G20 7LU. Tel: 0141 332 4232 / Fax: 0141 332 6952

email: info@raytelsecurity.co.uk   Internet: www.raytelsecurity.co.uk

21

SYSTEM ARCHITECTURE

AR-829E
AR-829L485
AR-401RO16

RS485

AR-727CM

TCP/IP

ROUTER
HUB

ADSL
ADSL

TCP/IP

ROUTER
HUB

TCP/IP

AR-701CM

RS-232

Up to 8 nodes
AR-727H
AR-721H
AR-727H
AR-716Ei
AR-727H
AR-721K

Up to 8 nodes
AR-721H
AR-721U
AR-727H
AR-661U

AR-727H
AR-829L485
AR-401RO16

AR-716E-RAY
AR-737HB-RAY
AR-737HB-RAY

AR-727HB-RAY
AR-737HB-RAY
AR-737HB-RAY

AR-829E
LED Display
AR-737HB-RAY

Up to 254 nodes

AR-821EF
AR-737H
Up to 8 nodes
AR-727H
AR-721H
AR-721K
K50P
AR-727H
AR-721K
AR-721U
Up to 8 nodes
AR-721H
AR-716E
AR-727H
AR-661U

Legend

- ▪ Reader
- ■ Controller + Reader (TCP/IP — Wiegand)
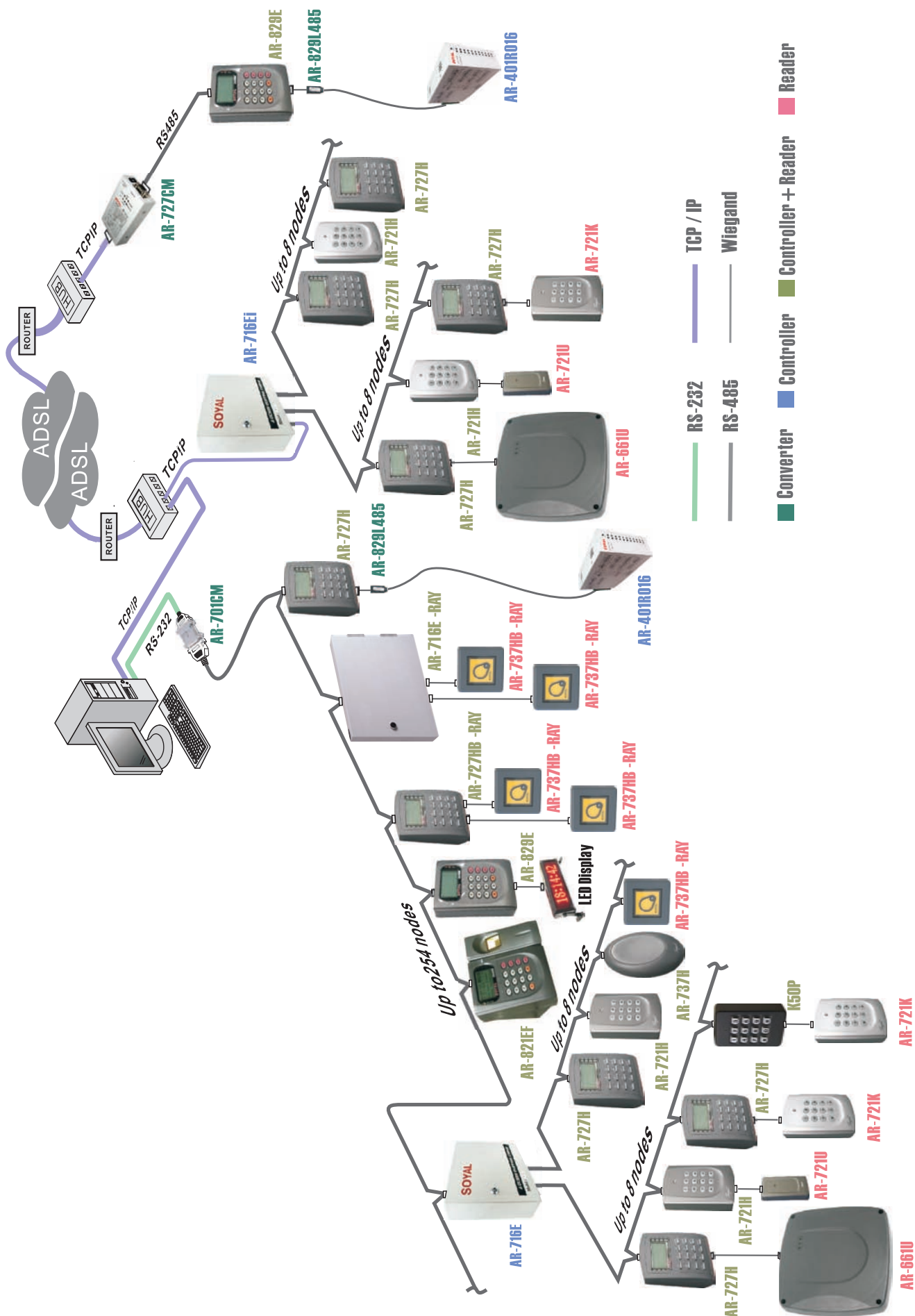- ■ Controller
- ■ Converter (RS-232 — RS-485)

Southern Office: Raytel House, Brook Road, Rayleigh, Essex SS6 7XH. Tel: 01268 749310 / Fax: 01268 749315
Northern Office: Unit 3, Block 5, Oakbank Industrial Estate, Garscube Road, Glasgow G20 7LU. Tel: 0141 332 4232 / Fax: 0141 332 6952
email: info@raytelsecurity.co.uk   Internet: www.raytelsecurity.co.uk