Portal Reader

V720-HA51 RF Amplifier
V720-HS51 Portal Antenna

V720-HA51
RF Amplifier

V720-HS51
Portal Antenna

■ Product Description

OMRON's Portal Reader consists of a V720-HA51 RF Amplifier and a V720-HS51 Portal Antenna. The information on RFID tags attached to crates are quickly read, greatly reducing the time taken to check shipments compared to bar codes. The Portal Reader can also be combined with a V720-CD1D ID Controller to easily connect to a host computer.
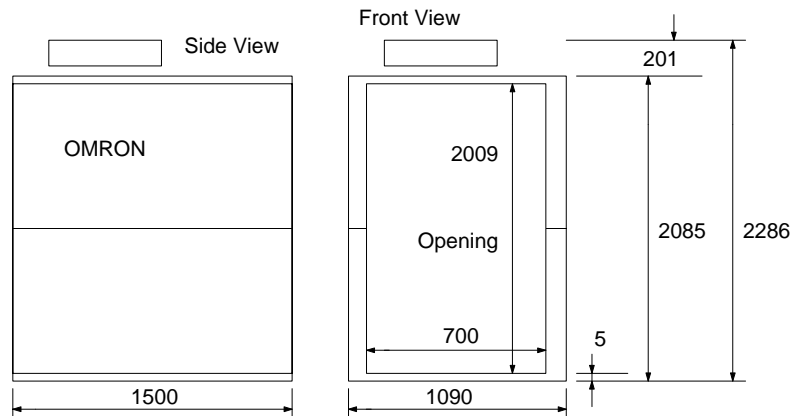
■ Features

● Communication frequency: 13.56 MHz
● Conforms to the international standard ISO 15693 for contactless IC cards.
● Antennas on both sides of the structure enable simultaneously reading/writing multiple tags (1:n) attached to crates.
● Conforms to EC Directives

■ Benefits

● High reading accuracy even in dirty or dusty environments.
● Faster tag reading.
● Greater work efficiency.

Dimensions of Portal Reader

Side View

Front View

OMRON

Opening

2009

700

201

2085   2286

5

1500

1090

■ General Specifications

Item	Specifications
Communication frequency	13.56 MHz
Ambient temperature in operation	-10 to 40°C (with no icing)
Ambient temperature in storage	-20 to 55°C (with no icing)
Ambient humidity in operation	35% to 85% (with no condensation)
Dimensions	H 2286 mm x W 1090 mm x D 1500 mm
Dimensions of opening	H 2009 mm x W 700 mm
Degree of protection	IEC60529 IP30 (indoor use only)
Communication area	H 1500 mm x W 700 mm x D 500 mm min. Conditions: 1) Tags are placed in parallel with the side of the enclosure. 2) The tilt of tag: 10 degrees or less 3) Separation between tags in parallel: 10 cm or more 4) Usable Tag type: V720-D52P30 (soft tag)
Maximum number of tags read simultaneously	Recommended maximum number of tags: 64 or less
Warm-up time	30 minutes or longer (usable 30 minutes after turning ON power switch)
Supply voltage	24 VDC $^{+10\%}/_{-15\%}$
Power consumption	35 W or less
Weight	Approx. 250 kg
Main body installation method	Fixed to the ground by stone bolts
Applicable standards	ETS 300 330, ETS 300 683