



SUBSCRIPTION BASED WITH
ANPR
TICKET DISPENSER
TICKET READER
INFORMATION DISPLAYS
PARKING SPOT SIGNS



OPEN PARK

Integrated parking and ticketing system



OpenPark is an integrated Parking Management, tolling and vehicle access solution. It integrates several sensors according to customer site needs including ANPR cameras, RFID readers, Barcode ticket dispenser and reader using secure QR-Code. It also includes a complete POS system, shift management, cash accounting and collection, ticket printing manually and through ticket dispenser and mobile application.

Every vehicle entry/exit record is documented with a snapshot and or Video clip with time stamp, relevant ticket or RFID card data used in the event.

Automatic Number
Plate Recognition
that works
worldwide

Free subscription
lane, ticket
dispenser for non-
members, ticket
readers, e-payment
with NFC

Centralized
management can
work with unlimited
number of entry and
exit lanes

OPENPARK
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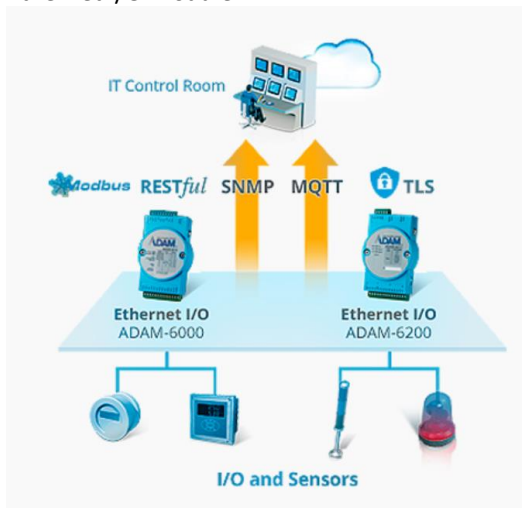
www.open-park.com

Remote IO Specifications



Ordering information WISE-4060/LAN

4-ch Digital Input and 4-ch Relay Output IoT Ethernet I/O Module



General

Protocol	Modbus/TCP, TCP/IP, UDP, HTTP, DHCP, MQTT
Certifications	CE, FCC, RoHS
Connectors	Plug-in screw terminal block (I/O and power)
Data Log	Up to 10000 samples with time stamp
Dimensions (W x H x D)	80 x 89 x 25 mm
Enclosure	PC
LAN	IEEE 802.3u 10/100Base-T(X)
Mounting	DIN 35 rail, Wall, Stack
Power Consumption	2.5 W @ 24 VDC
Watchdog Timer	System (1.6 second) & Communication (programmable)
Web API	RESTful in JSON format
Web Server	HTML5 with JavaScript & CSS3

Environment

Operating Humidity	20 ~ 95% RH (non-condensing)
Operating Temperature	-40 ~ 70°C (-40~158°F)
Storage Humidity	0 ~ 95% RH (non-condensing)
Storage Temperature	-40 ~ 85°C (-40 ~ 185°F)
Outdoor enclosure	IP65

Relay Output

Insulation Resistance	1 GΩ min. @500 VDC
Isolation between Contact	3,000 Vrms
Maximum Switching	60 operations/minute
Relay off Time (Typ.)	5 ms
Relay on Time (Typ.)	10 ms
Contact Rating	250 VAC @ 5A, 30 VDC @ 3A
Channels	4

Digital Input

Channels	4
Isolation	3,000 Vrms
Logic Level	Dry Contact 0: Open, 1: Close to DI COM; Wet Contact 0: 0 ~ 3 VDC, 1: 10 ~ 30 VDC (3 mA min.)

Communication with IoT Protocols

MQTT

- Actively publish MQTT message with user defined interval
- Shortens downtime with alarm event notification
- Privacy assured with the TLS (Transport Layer Security)
- Simplifies configuration for MQTT using the .Net Utility

SNMP

- Simple way to monitor I/O data on NMS (Network Management System)
- SNMP trap to notify alarm event
- Reduces implementation cost with MIB (Management Information Base) file



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Dual Channel Vehicle Detectors

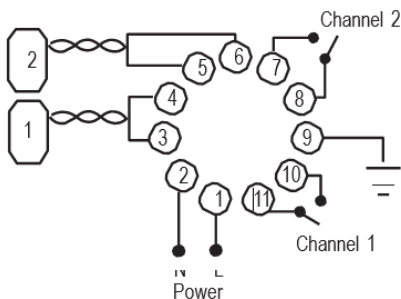
One of the most critical components of the whole vehicle access control system is the inductive loop detector. OpenPark's detectors have been renowned for their reliability and durability for over many years.

Dual channel loop detectors are used to identify the presence of vehicles by means of two independent inductive loops buried under the road and can be used in almost any application.

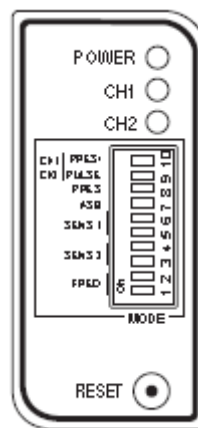
OpenPark's Dual channel detectors feature A-B logic and flexibility to eliminate cross-talk. All detectors are CE tested and approved. A compact detector diagnostic unit is available for extracting data from new and existing sites.

PD230 - Vehicle Detector features

- Compact size & elegant styling
- Flexible
- Automatic Sensitivity Boost (ASB)
- A-B Logic
- Fault monitor
- Diagnostic capabilities



PD230



PD230 - Vehicle Detector specifications

Self-tuning range:	20-1000 μ H
Sensitivity:	4-step selectable per channel: High: 0.02% Δ L/L; Medium High: 0.05% Δ L/L; Medium Low: 0.1% Δ L/L; Low: 0.5% Δ L/L
Frequency:	4-step adjustable, 20-70kHz (frequency determined by loop geometry)
Output relays:	1 output relay per channel (fail-safe) Fail secure (factory option)
ASB:	Switch selectable automatic sensitivity boost
Pulse O/P duration:	Approx. 150ms (factory option 250ms)
Presence time:	Selectable: limited or permanent Limited: presence 1 hour for 3% Δ L/L
Protection:	Loop isolation transformer, Zener diode clamping on loop inputs and gas discharge tube protection
Environment:	Protection level IP65, Operating temperature from -40 to 80 C
Power supply.:	120V AC +/- 15% 48-60Hz (PD231) 230V AC +/- 15% 48-60Hz (PD232) 12-24V AC/DC +/- 15% (PD234) Crurent : 1.5VA max @ 230V
Output relays:	5A @ 230V AC; N/O contact per channel (fail-safe)

Operating Modes:

1. Presence (CH1) or Pulse (CH1)
2. Presence (CH2) or Pulse (CH2)
3. A to B (CH1) & B to A (CH2), (presence or pulse)
4. Automatic sensitivity boost off/on

Ordering Information

PD231:	Dual channel, 110V AC
PD232:	Dual channel, 230V AC
PD234:	Dual channel, 12-24 V AC/DC



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