

Aspirating Detector Remote Display Programmer

- Compatible with Protec Cirrus HYBRID, Cirrus CCD, ProPoint Plus aspirating detectors and Hercules graphics
- Up to 98 aspirating detectors can be networked by RS485
- Remote viewing of the status of any network detector
- Remote programming of any network detector
- Remote viewing of event logs, historic particle level graphs and detector configuration data of any network detector
- 7" full colour multi-function touch screen LCD display
- Fault signal output contact for any network detector or network fault connection
- Fire signal output contact for any network detector fire condition



Note: The RS485 wired network is not a 'secure' network and should not be used for 'critical path' signalling.

Note: The RS485 wired network is not intended for the connection of any non-Protec auxiliary devices.

There are many applications where remote access and control of an aspirating detector can be beneficial. These could include, one or more detectors located in difficult access areas, or maybe where the detector information is required at a central control point within the building.

Additionally, for some aspirating detector installations, where many detectors are installed within a common warehouse building for example, it may not be commercially viable or necessary, to have a full detector display on every detector. For these and many other reasons the Aspirating Detector Remote Display Programmer (ADRDP), has been developed.

Up to 98 of any combination of Cirrus CCD, Cirrus HYBRID or ProPoint Plus Protec aspirating detectors can be connected on an RS485 wired network.

The primary function of the ADRDP is to identify any networked detector which may be in an alarm or fault condition, thereby allowing the required actions to be carried out.

The ADRDP is also a single access entry point to any detector allowing visual inspection, many programming features and viewing of detector information, logs and graphs for each device.

For onward signalling each ADRDP is provided with separate (non-monitored) volt-free changeover contacts for an alarm or fault condition on any network detector. A selectable ON/OFF buzzer is provided to alert local personnel, should this be required.

Each ADRDP contains an IP address and an RJ45 connector to allow connection to a site LAN and therefore network access from any location.

Each ADRDP utilises the same 7" full colour touch screen LCD display as the CCD and HYBRID detectors, allowing identical intuitive viewing and control of each device.

An ADRDP may also be used when long RS485 wired installations are necessary. Each ADRDP can be used to boost the network communication length by 1.2km.

Technical Specification

Power Supply	20 to 28V dc Minimum 2A dc
Power Supply Fuse	PTC 1.6A (Resettable)
Voltage Operating Range	20 to 28V dc
Current Consumption (peak on power-up)	0.7A dc at 24V dc
Current Consumption (quiescent)	0.2A dc at 24V dc
Power Consumption (peak on power-up)	16.8 Watts
Power Consumption (quiescent)	4.8 Watts
Fault Contact	Rated at 30V dc 1A dc (Max resistive load) (Normally Closed, Non Monitored)
Fire Contact	Rated at 30V dc 1A dc (Max resistive load) (Normally Closed, Non Monitored)
Temperature Range	0°C to 45°C ambient
Relative Humidity	Up to 95% (no condensation or icing)
Indications	Power (Green LED) Fault (Amber LED) Alarm/Fire (Red LED) 7" LCD touch screen display

IP Rating	IP30
Cable Access	12 x 20mm push out entry points
Cable Termination	Screw terminal blocks (0.2 - 2.5mm ² , 24 - 14AWG)
Connectivity	TCP/IP Network protocol (RJ45) RS485 Network protocol USB type B Socket connection
Weight	1.53 kg
Dimension (mm)	226(W) x 342(H) x 112(D)

Note: For all RS485 wired network cabling parameters, please see Protec ADRDP installation manual.

Typical Schematic



Maximum 98 Protec aspirating detectors on RS485 wired network
Maximum 1.2km RS485 network length with one ADRDP (can be extended using multiple ADRDPs)

Key:

- RS485 wired network
- TCP/IP (LAN) Connection

LCD Touch Screen Detector Matrix

	00	01	02	03	04	05	06	07	08	09
00		P	P	P	H	H	H	H	P	D
10	C	P	H	H	H	H	H	P	H	H
20	H	H	C	C	C	P	P	P	C	C
30	P	H	H	P	P	P	P	H	H	H
40	P	H	H	H	C	C	C	C	H	H
50	C	P	H	P	P	P	H	C	C	H
60	C	P	H	P	H	H	H	H	H	C
70	H	P	H	C	C	H	H	H	C	H
80	H	P	H	H	H	H	C	C	P	P
90	P	P	D	H	H	H	H	H	H	D

	ProPoint Plus
	Cirrus HYBRID
	Cirrus CCD
	Remote Display

Node Number:
IP Address:
IP Mask:
IP Gateway:

ADRDP Screen image showing full network configuration.

Each device display is accessed by pressing the relevant detector icon on the ADRDP touch screen.

Product Code
61-986-ADRDP

Company Policy is one of continuous improvement, we reserve the right to change specification without prior notice