

# D51MX

# Generation 6 MX Detection Range Duct Sampling Unit

## **Features**

- Duct Sampling Unit for MX Addressable Loop
- Compatible with MX Addressable Loop on SIMPLEX 4100ESi, VIGILANT MX1 and VIGILANT MX4428 fire panels
- Pre-wired base for MX 850P/PH detector
- · Rugged construction, reliable performance
- · Remote termination for easy installation
- Sampling tube length 160mm to 1800mm with optional extension



# Description

The D51MX consists of a D51 duct sampling housing fitted with a detector base wired to suit an *MX* analogue addressable 850P/PH or 814P/PH photoelectric smoke detector. When fitted with the detector, the DSU is designed to detect smoke in the air passing through an air conditioning duct by extracting some air through the smoke detector. The D51MX is fitted on the outside of the duct, allowing easy access for detector servicing and replacement of the dust filters.

To cater for most duct sizes, a sampling tube extension is available in 3 metre lengths.

The VIGILANT E500 Mk2 Series Remote Indicator can be used for remote indication of an alarm.

### Installation

Mounting D51MX on Duct

- Mark on duct holes for sampling tubes, 122mm apart.
- · Drill 2 holes 24mm in diameter.
- Position D51MX duct sampling unit oriented as shown.
- Mark on duct mounting screw holes. Drill and fix housing firmly to duct.
- Insert sampling tube extension, tighten holding screw and refit filter.

# **Specifications**

Operating Voltage<sup>1</sup>
Quiescent Current
Alarm Current
Duct Pressure
Duct air velocity for
alarm at 8%Obs/m<sup>2</sup>
Sampling Tube Length
Duct Width (maximum)
Remote Indicator
Dimensions

Base & Cover (LWH)
Sampling Tube Pitch
Duct Holes Required
Ambient Temperature
Relative Humidity
ActivFire Listed<sup>2</sup>

#### Part Numbers

D51MX D51L D51F D51T3 D51K100 20 to 40Vdc 275µA (typ.) 10mA with LED on -1.15 to +3.0 kPa

1, 2, 4, 8m/s 160mm minimum 1.8m E500 Mk2 Series

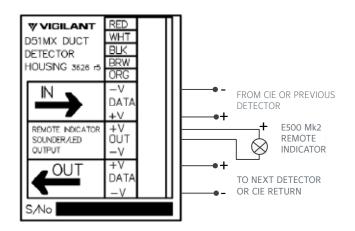
278x190x113 mm 122mm 24mm dia. x 2 places -10°C to +55°C 10% to 95% (n/cond) afp-1496

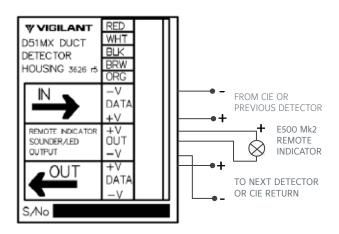
DSU with MX Base Baffle - bag of 10 Filter - bag of 10 3m Sampling Tube D51K10 End Cap - bag of 10

- 1. Addressable loop voltage provided by  $\emph{MX}$  CIE.
- 2. Listed with 850P/850PH or 814P/814PH

# Wiring

All field wiring terminates in the red termination box to push-fit clamping terminals. Connect field wiring to the terminals as per the drawing.





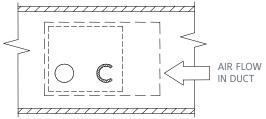
#### D51MX with 850P/PH on MX1/4100ESi

The D51MX contains a Vigilant 3626 R5 version of Termination PCB. Connect the *MX* Addressable Loop into the IN +V, -V terminals and the outgoing loop to the OUT +V, -V terminals, when an 850P or 850PH detector is used with an MX1 or 4100ESi panel.

#### D51MX with 850P/PH on MX4428, or 814P/PH

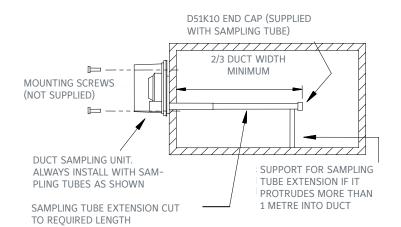
The D51MX contains a Vigilant 3626 R5 version of Termination PCB. Connect the *MX* Addressable Loop into the IN +V, -V terminals and the outgoing loop to the OUT +V and REMOTE INDICATOR -V terminals when an 814P or 814PH detector is used, or an 850P/PH is used on an MX4428 panel.

#### Sampling Tube Extension (supplied separately)



SECTION THROUGH DUCT.

ONLY ONE SAMPLING TUBE EXTENSION IS REQUIRED. SLOT IN TUBE MUST FACE AIR FLOW AS SHOWN. (HOLDING SCREWS SUPPLIED)



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VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of MX TECHNOLOGY fire detection products and the market-leading QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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