METCLEAN E AND V

# PRESSURE TEST KIT FIT AND USE

Fitting the retrofit pressure test kit to a METclean E or V, and using it to take a back pressure reading on a DPF.



**POWER** 24V DC

**READOUT** 0 TO 300 MBAR

**TEST** 5 TO 10 SECOND DRY

START HERE

# 00 BEFORE YOU BEGIN

01 Isolate the machine
02 Mount the readout
03 Connect the power
04 Fit the bulkhead fitting
05 Fit the airlines
06 Connect the DPF
07 Take a reading

## WHAT IS IN THE KIT

| PART | WHAT IT DOES |
|---|---|
| Silver pressure readout | Shows the back pressure in mbar. Powered from the machine's 24V DC supply. |
| Bulkhead fitting | Takes the airline through the cabinet wall. |
| 6mm airline and rubber adapter hose | Joins the readout to the bulkhead fitting outside the cabinet. |
| Spiral 6mm airline | Joins the bulkhead fitting to the T piece inside the cabinet. |
| T piece adapter | Fits between the DPF inlet and the wash hose, and takes the pressure reading. |

## WHAT YOU NEED

**TOOLS**
Drill and suitable bits, an insulated screwdriver and a voltage tester.

**AIR SUPPLY**
The machine connected to its normal air supply for testing.

**KNOW-HOW**
Electrical work should only be done by a qualified person.

**ELECTRICAL SAFETY**
Disconnect the machine from the mains before any electrical work, and check it is dead with a voltage tester. Use lockout and tagout so it cannot be switched back on while you work. If you are unsure about any step, stop and call MET.

**TRAP HAZARDS**
Keep hands clear of doors and moving parts. Never reach into the machine while it is running.

SAFETY FIRST

# 01 ISOLATE THE MACHINE

1. Switch the machine off and disconnect it from the mains supply.
2. Check the power is off with a voltage tester before opening the electrical box.

READOUT

# 02 MOUNT THE READOUT

1. Choose a position on the outside of the electrical box where the readout is easy to see.
2. Mount the silver readout with the screws and bracket supplied in the kit.
3. Drill a hole just above it, fit a grommet or gland, and feed the readout cable through into the electrical box.

**PORTS**

The readout has two ports underneath: **H** on the left and **L** on the right. The airline goes on the **H** port. Leave **L** open.




The readout fitted to the electrical box.

POWER

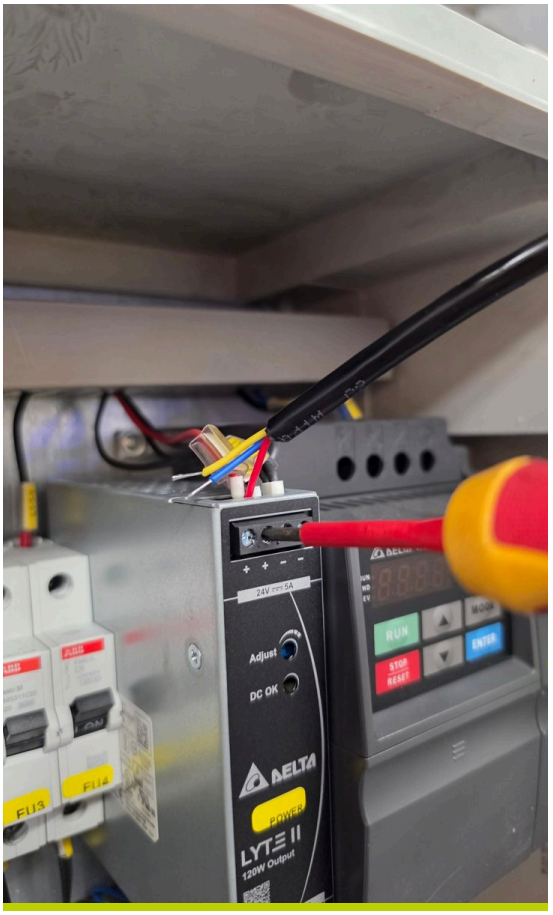
# 03 CONNECT THE POWER

1. Inside the electrical box, find the 24V DC power supply.
2. Connect the **red** wire to a **+** terminal.
3. Connect the **blue** wire to a **–** terminal.
4. Tighten the terminals and give each wire a gentle pull to check it is secure.

| WIRE | CONNECT TO |
|---|---|
| Red | 24V DC **+** |
| Blue | 24V DC **–** |
| Yellow | Not used for this kit. Insulate the end. |

### CHECK THE LABEL

The readout label shows the wiring: power DC24V, red V+, blue V–, output on yellow.




Red and blue to the 24V DC supply.

CABINET

# 04 FIT THE BULKHEAD FITTING

1. Choose where the airline will pass through the cabinet wall, near the readout and clear of the door.
2. Drill the cabinet with a suitable bit for the bulkhead fitting.
3. Fit the bulkhead fitting and tighten the nuts on both sides of the panel.



The bulkhead fitting from outside.

AIRLINES

# 05 FIT THE AIRLINES

1. Outside: push the rubber adapter hose onto the **H** port of the readout.
2. Join the 6mm airline to the adapter hose and push the other end into the bulkhead fitting.
3. Inside the cabinet: push the spiral 6mm airline into the bulkhead fitting.
4. Connect the other end of the spiral airline to the T piece adapter.




Readout H port to the bulkhead fitting.

HOW TO USE

# 06 CONNECT THE DPF

1. Switch the machine on and make sure it is connected to the air supply.
2. Fit the DPF for testing with the T piece adapter between the **DPF inlet** and the **wash hose**.
3. Check the spiral airline is pushed fully into the T piece.

HOW TO USE

# 07 TAKE A READING

1. Run the DRYING sequence for 5 to 10 seconds.
2. Read the back pressure on the readout and write it down.
3. Stop the drying sequence.

**MET TIP**

The higher the reading, the more blocked the DPF. Always use the same drying time, so readings from different DPFs can be compared.



The spiral airline to the T piece adapter.

GOOD PRACTICE

# 08 TIPS AND CHECKS

1. Take the reading before cleaning, so you have a baseline for the customer.
2. Keep the T piece and airlines clean and dry when not in use.
3. If the readout shows nothing, check the red and blue wires and that the machine is switched on.
4. If the reading does not change with a DPF fitted, check the airlines are pushed fully into every fitting and the H port is used.

## ANY QUESTIONS? TALK TO MET.

**Phone**
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**WhatsApp**
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