ANALYT MESSTECHNIK



INSTRUCTIONS FOR USE

SKC Adapted IOM Inlet for HAZ-DUST

Parts, assembly and use of the SKC adapted IOM inlet for inhalable and respirable dust sampling with the SKC HAZ-DUST II, III and IV particulate monitors.

AMTC-IN-0019

Rev. 2 · October 2026

About this document

These instructions cover the SKC adapted IOM inlet for the SKC HAZ-DUST II, III and IV particulate monitors. The inlet turns the sensor head of the monitor into an IOM entry for inhalable dust, and with a foam plug for respirable dust. The instructions name the parts, show how they go together and how to fit the inlet to the sensor head.

Read chapter 1, Safety (p. 4), and chapter 2, Product and supplied items (p. 5), first, then follow Before use (p. 6) and Procedure (p. 7). Setting the flow rate, zeroing and running the monitor are described in the operating manual of your HAZ-DUST monitor; these instructions do not replace it, nor the sampling method you work to.

Keep these instructions for the lifetime of the product. The current revision is on the product page at analyt-mtc.com.

How these instructions mark information

NOTICE

Practices not related to personal injury — damage to the product, the process or the sample.

Note

Information that helps understanding; never a hazard.

Document information

Title	SKC Adapted IOM Inlet for HAZ-DUST — Instructions for use
Document number	AMTC-IN-0019
Revision	Rev. 2 — October 2026
Applies to	SKC adapted IOM inlet, for HAZ-DUST II, III and IV monitors
Language	English
Manufacturer	SKC Inc.

Revision history

Rev.	Date	Change
2	October 2026	Quality programme: new document type, number and identity pages.
1	October 2026	First issue.

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CHAPTER 1

Safety

Read this chapter before you use the inlet. It states what the inlet is intended for and brings together the safety messages of these instructions.

Intended use

The SKC adapted IOM inlet is the entry for inhalable sampling on the sensor head of a HAZ-DUST II, III or IV monitor. With a foam plug in its inlet it makes the respirable cut instead. Use it with the monitor running at 2 L/min, and with the operating manual of the monitor.

Safety messages

The message in these instructions protects the sample. It is repeated where it applies, in Before use (p. 6).

NOTICE

Flow rate. The IOM inlet samples correctly only at a flow rate of 2 L/min. At any other flow rate the sample is not correct. Set the flow on the monitor to 2 L/min as described in its operating manual before you sample.

CHAPTER 2

Product and supplied items

For inhalable sampling, the HAZ-DUST monitor needs a suitable entry on its sensor head. The SKC adapted IOM inlet is that entry: an aluminium adaptor that carries the spout and the front plate of the standard black plastic IOM sampler, and pushes straight into the inlet hole of the sensor head.



Parts

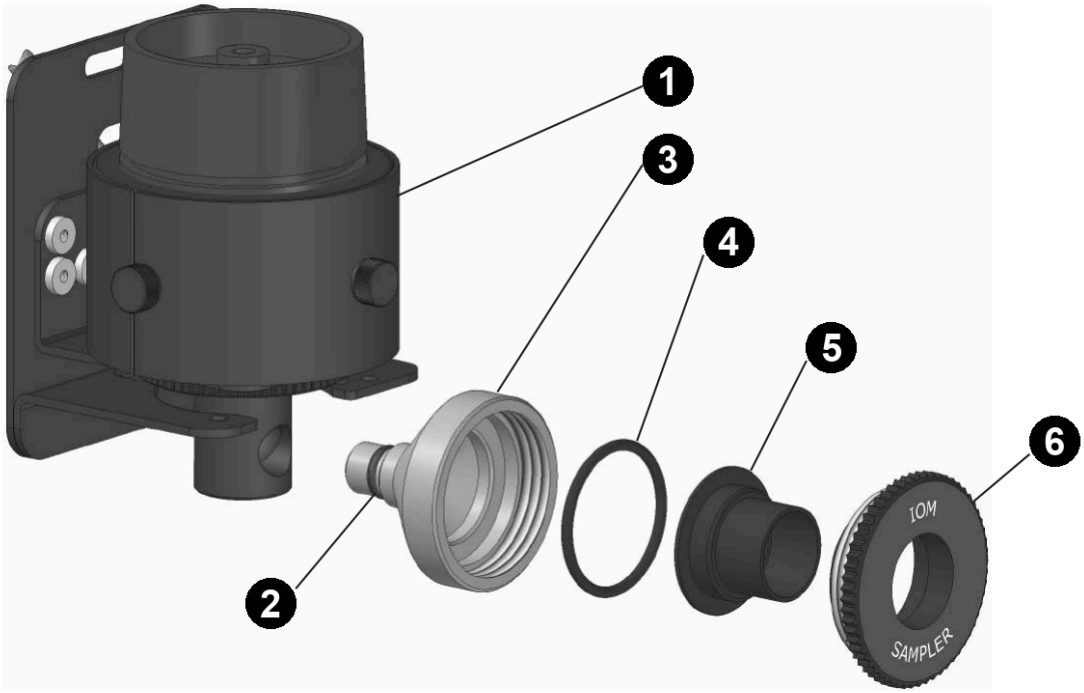


Figure 2-1. The adapted IOM inlet, exploded, in front of the HAZ-DUST sensor head. The numbers are those of the table below.

No.	Part	What it does
1	HAZ-DUST sensor head	Part of the monitor. The inlet fits into its inlet hole.
2	O-ring on the adaptor	Integral with the adaptor. Seals the adaptor in the sensor head inlet and holds it in place.
3	IOM adaptor, aluminium	Connects the IOM parts to the sensor head.
4	O-ring	Seals the spout to the adaptor.
5	IOM spout	From the standard black plastic IOM sampler. Its inlet takes the foam plug for respirable sampling.
6	IOM front plate	From the standard black plastic IOM sampler.

CHAPTER 3

Before use

Flow rate

NOTICE

Flow rate. The IOM inlet samples correctly only at a flow rate of 2 L/min. At any other flow rate the sample is not correct. Set the flow on the monitor to 2 L/min as described in its operating manual before you sample.

Assemble the inlet and fit it to the sensor head

Assemble the inlet in the order of Figure 2-1 (p. 5), from the adaptor outwards, then fit it to the sensor head.

1. Check that the O-ring (2) sits on the stem of the adaptor (3).
2. Fit the O-ring (4) next, as in Figure 2-1 (p. 5). It seals the spout to the adaptor.
3. Fit the IOM spout (5).
4. Fit the IOM front plate (6).
5. Push the stem of the adaptor into the inlet hole of the HAZ-DUST sensor head (1). The O-ring on the stem seals the inlet and holds it in place.

CHAPTER 4

Procedure

Inhalable sampling

1. Check that the inlet is assembled and fitted to the sensor head (see Assemble the inlet and fit it to the sensor head (p. 6)).
2. Set the monitor to a flow rate of 2 L/min (see Flow rate (p. 6)).
3. Sample as described in the operating manual of the monitor.

Respirable sampling

With a foam plug in its inlet, the adapted IOM makes the respirable cut.

1. Check that the inlet is assembled and fitted to the sensor head (see Assemble the inlet and fit it to the sensor head (p. 6)).

   Note
   Do not squeeze the foam. Push the foam plug in gently, without compressing the foam more than needed to seat it.

2. Push the foam plug into the inlet of the IOM spout (5).
3. Set the monitor to a flow rate of 2 L/min (see Flow rate (p. 6)).
4. Sample as described in the operating manual of the monitor.

CHAPTER 5

Ordering information

Order from Analyt-MTC with the order code.

Ask Analyt-MTC for the order code of the adapted IOM inlet and which foam plugs fit it.

CHAPTER 6

Service and contacts

The SKC adapted IOM inlet is made by SKC. Analyt-MTC is your contact for it: foam plugs, spare parts, technical support and the operating manual of your HAZ-DUST monitor.

Contact and support

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Before you call

Have the following at hand so that Analyt-MTC can help you quickly:

- the model and serial number of your HAZ-DUST monitor;
- the catalogue number of the inlet;
- whether you sample inhalable or respirable dust, and the method you work to.

Disposal

Dispose of the inlet under local regulations; separate metal, glass and plastic parts for recycling where possible.

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AMTC-IN-0019 · Rev. 2 · 2026-10

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