

Instruction

Figures 8.1 and 8.2 provide disassembled views of the instrument and its pump module, respectively, identifying their parts and components. Use Table 8.1 to determine which items are customer replaceable and identify their part names and part numbers.

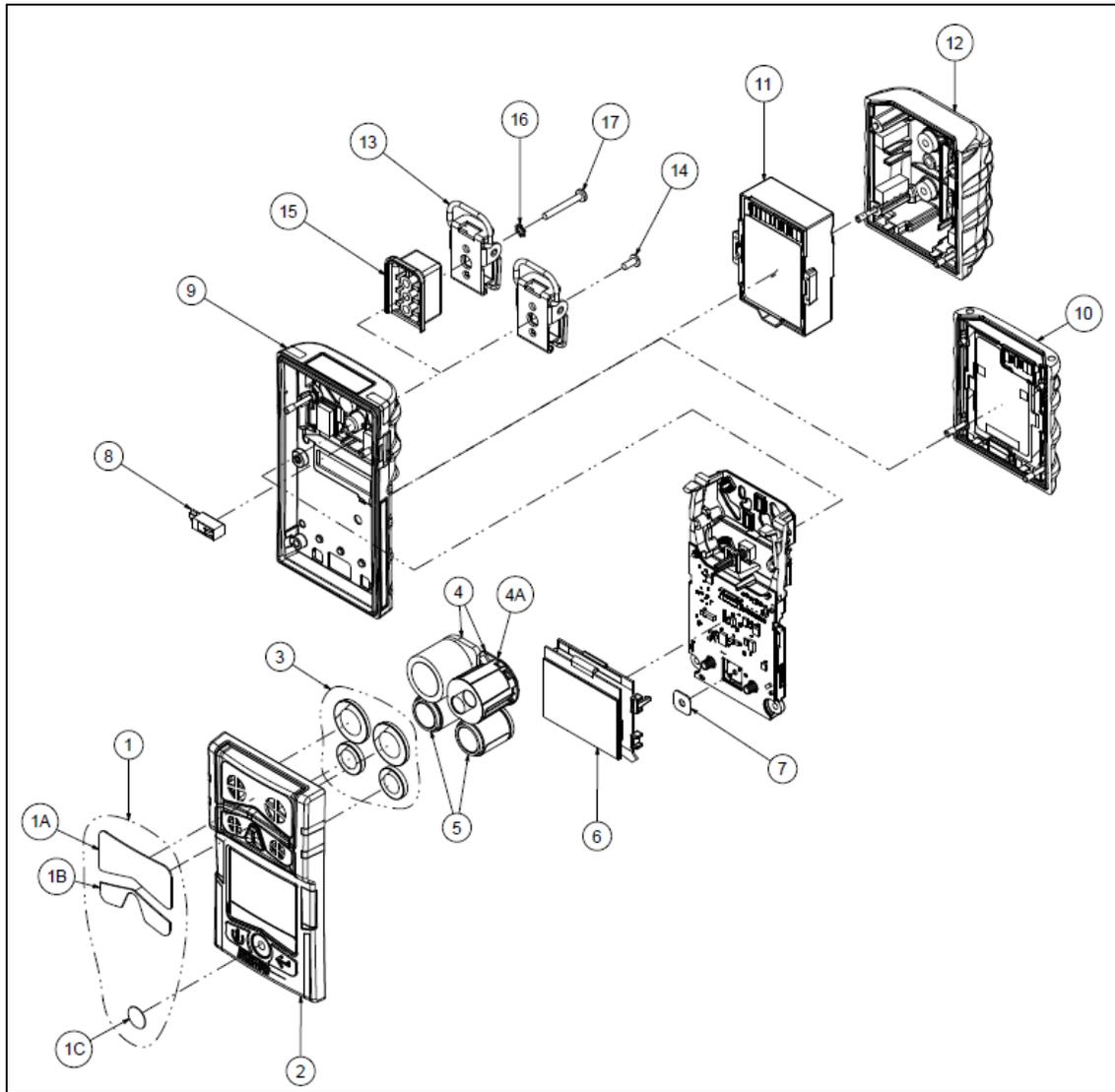


Figure 8.1 Instrument diagram

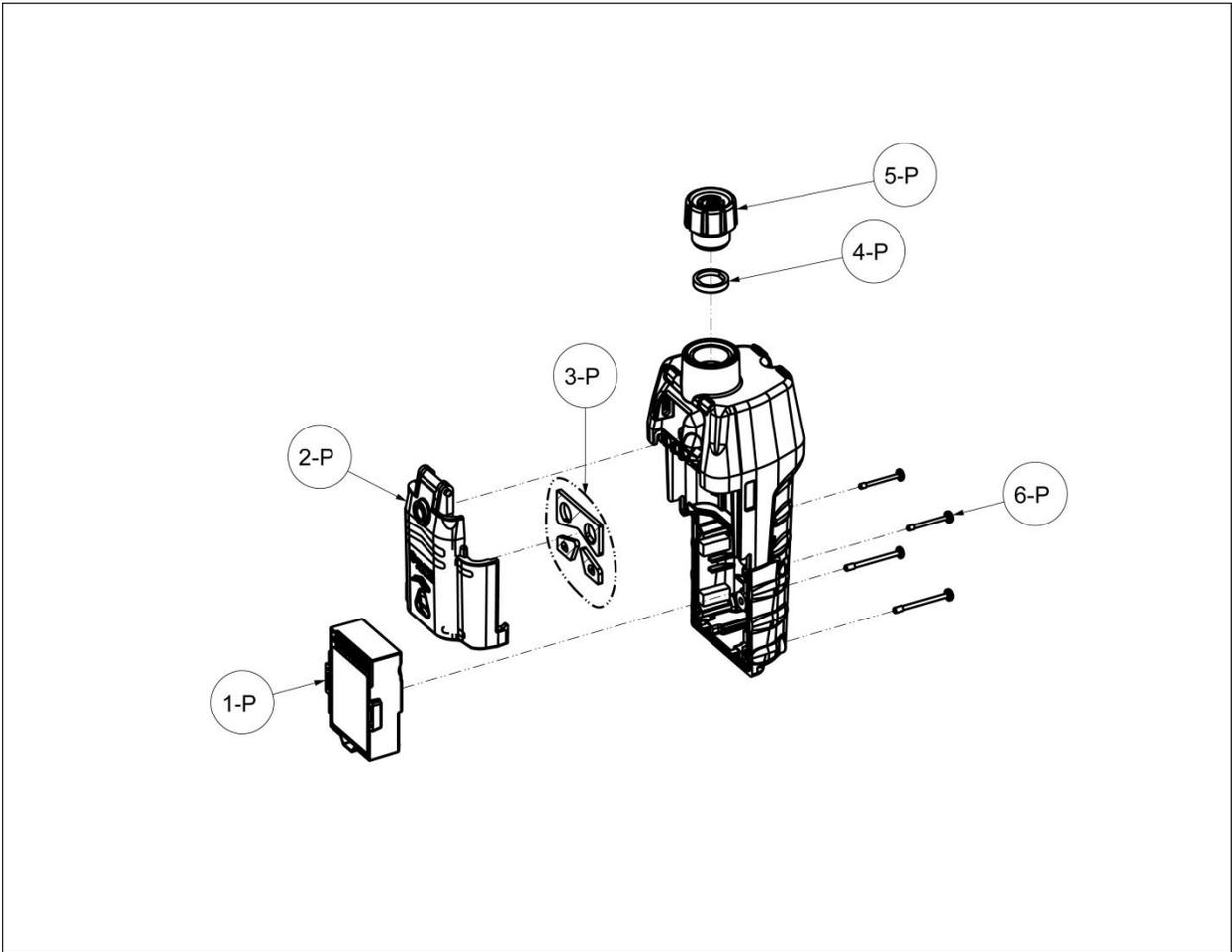


Figure 8.2 Pump module diagram

Table 8.1 Instrument and pump module parts list

Diagram number	Part name	Customer replaceable	Part number	Notes
Instrument				
1 (includes 1A, 1B, and 1C)	Dust barrier kit	Yes	18109435	Includes ten of each sensor dust barrier and ten speaker dust barriers.
2 (includes 1A, 1B, 1C, and 3)	Case top assembly	Yes	17156049-XY	Assembly includes case top, dust barriers, and water barriers X indicates case-cover color, where 0 = Black and 1 = Orange. Y indicates name plate, where 1 = Ventis Pro4 and 2 = Ventis Pro5.

Table 8.1 Instrument and pump module parts list

Diagram number	Part name	Customer replaceable	Part number	Notes
3	Sensor water barrier kit	Yes	18109436	Includes one water barrier for each sensor port.
4, 4a, and 5				See "Table 2.5 Sensor specifications" for details about sensor compatibility and permitted installation locations.
	Ammonia (NH ₃)	Yes	17155306-6	Ventis Pro5 only.
	Carbon Dioxide/Hydrocarbons (CO ₂ /HC)	Yes	17155304-U	Ventis Pro5 only.
	Carbon Dioxide/Methane (CO ₂ /CH ₄)	Yes	17155304-V	Ventis Pro5 only.
	Carbon Monoxide (CO)	Yes	17155306-1	
	Carbon Monoxide/Hydrogen Sulfide (CO/H ₂ S)	Yes	17155304-J	Ventis Pro5 only.
	Carbon Monoxide/Hydrogen Sulfide (CO/H ₂ S)	Yes	17155306-J	Ventis Pro5 only.
	Carbon Monoxide with low Hydrogen cross-sensitivity (CO/H ₂ Low)	Yes	17155306-G	—
	Hydrogen Cyanide (HCN)	Yes	17155306-B	—
	Hydrogen Sulfide (H ₂ S)	Yes	17155306-2	—
	Hydrogen Sulfide (H ₂ S)	Yes	17155304-2	—
	LEL (Methane)	Yes	17155304-L	—
	LEL (Pentane)	Yes	17155304-K	—
	Methane, 0-5% vol.	Yes	17155304-M	—
	Nitrogen Dioxide (NO ₂)	Yes	17155306-4	—
	Oxygen (O ₂)	Yes	17155304-3	—
	Sulfur Dioxide (SO ₂)	Yes	17155306-5	—
6	LCD assembly	No*	—	—
7	Audible alarm speaker	No*	—	—
8	Vibration alarm motor	Yes	17120080	—
9	Case bottom	No*	—	Torque: .39 newton m (55 ounce-force inch)
10	Rechargeable lithium-ion battery pack	Yes	17134453-0Y	Y indicates approvals where 1 = UL, ATEX, and IECEx. Torque: 0.39 newton m (55 ounce-force inch)

Table 8.1 Instrument and pump module parts list

Diagram number	Part name	Customer replaceable	Part number	Notes
11	Extended-run-time, rechargeable lithium-ion battery	Yes	17148313-Y	Y indicates approvals where 1 = UL, ATEX, and IECEx. Torque: 0.39 newton m (55 ounce-force inch)
12	Battery cover (for use with extended-run-time, rechargeable lithium-ion battery)	Yes	17151184-0Y	Y indicates approvals where 1 = UL, ATEX, and IECEx. Torque: 0.39 newton m (55 ounce-force inch)
13	Suspender clip	Yes	17120528	—
14	Screw with locking washer	Yes	17139262	Torque: .81 newton m (115 ounce-force inch)
15	Suspender clip spacer	Yes	17152506	—
16	Locking washer	Yes	17153137	—
17	Screw (for use with suspender clip spacer)	Yes	17152507	Torque: .81 newton m (115 ounce-force inch)
Pump				
1P - 6P	Pump module	Yes	VPP-ABCD	A indicates battery, where 0 = no battery and 2 = extended-run-time rechargeable lithium-ion battery B indicates color, where 0 = black and 1 = orange C indicates approvals, where 1=UL and CSA, 2 = ATEX and IECEx. , D indicates language, where 1 = English, 2 = French, 3 = Spanish, and 4 = German
Pump module parts				
1P	Extended-run-time, rechargeable lithium-ion battery	Yes	17148313-Y	Y indicates approvals where 1 = UL, ATEX, and IECEx. Torque: 0.39 newton m (55 ounce-force inch)
2P (includes 3P)	Door assembly	Yes	17156945-X	X indicates color, where 0 = black and 1 = orange.
3P	Gaskets	No*	—	—
4P	Inlet water barrier	Yes	17152395	—
5P	Inlet cap	Yes	17129909	—

*For items that are *not* customer replaceable, contact Industrial Scientific or an authorized service center.



Power off the instrument before disassembling it or performing any service task.

Pump installation



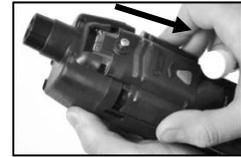
Unscrew and remove the belt clip. Store the clip, screw, and washer for future use.



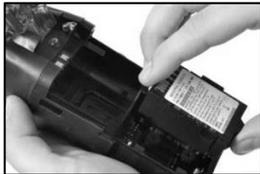
Unscrew, lift, and remove the battery pack from the diffusion instrument; store it for future use.



Loosen the pump door screw.



Slide the pump door down; lift it to open.



Install a compatible extended-run-time battery—label side up—into the lower receptacle of the pump case.



Place the instrument in the pump case.



Lower the pump door. Slide it into its fully closed, clicked-shut position.

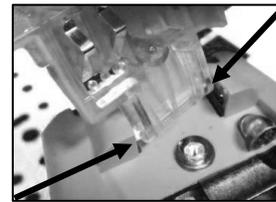


Tighten the pump door screw.

Pump door replacement



Loosen the pump door screw.
Slide the pump door down; lift it to open.



The door is hinged to the pump module with two pegs that slide into grooves. Angle the door so that one peg moves to the bottom of its groove and the other moves the top of its groove. Lift the door to remove it.

Install the new door in the same manner the door was removed.



Lower the pump door. Slide it into its fully closed, clicked-shut position. Tighten the pump door screw.