

Maxtek DSH5P1

Dual Sensor Head/Feedthrough



UNIQUE DESIGN DOUBLES CRYSTAL AVAILABILITY

The DSH5P1 is designed for use in critical processes where it is desirable to have a second crystal in the vacuum chamber. Water cooled, cast stainless steel sensor body, two Cool Drawer™ crystal holders and a pneumatically actuated shutter provide for a rugged sensor head with the extra reliability of a backup crystal. A cleaner, more reliable vacuum system installation is possible as there are no coaxial cables inside the chamber.

The DSH5P1 is available in two types of 2.54 cm (1") bolt feedthrough configurations. The SO and TO feedthrough versions utilize a compression o-ring seal around each of the five tubes allowing for easy adjustability without the need for brazing. The SB and TB feedthrough versions utilize short 0.48 cm (3.16 inch) tubing stubs which are brazed to the sensor tubes after the proper length has been established. Brazing is available upon request.

Two sensor configurations are offered: the T, top mounted version and the S, side mounted version. The T version is designed for installation through the top of the vacuum system and the water cooling tubes are perpendicular to the crystal face. The S version is designed for installation from the side or bottom of the chamber and the cooling tubes and the crystal face are parallel. In either configuration, sensor head length can range from 15 to 66 cm (6" to 26").

FEATURES AT A GLANCE

- Dual crystals
- Adjustable lengths
- 2.54 cm (1") bolt feedthrough
- Cool Drawer™ crystal holder



Cool Drawer™ crystal holder

SPECIFICATIONS

Materials	304 CRES, Teflon®, Ceramic, Beryllium Nickel , Viton®
Finish	Stainless steel, gold plated Cool Drawer™
Cooling	Water 0.2 GPM using 1/8" O.D. tube
Temperature	Operational environment to 300°C with water cooling or 160°C without
Electrical Connection	(2) standard female BNC's on atmosphere side
Crystal	Industry standard 0.550" diameter
Air Supply	55 o 60 PSI regulated
Adjustable Length	15 to 66 cm (6" to 26") for DSH5P1-SO and DSH5P1-SB 10 to 66 cm (4" to 26") for DSH5P1-TO and DSH5P1-TB
Mounting	1.015" ±0.010" diameter aperture

ORDERING INFORMATION

Each sensor head includes: (1) DSH5P1, (1) package of 10 each SC-101 crystals

Model #	Part #	Description
DSH5P1-SB	150224	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting. Brazing required.
DSH5P1-SO	150225	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting. No brazing required.
DSH5P1-TB	150220	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is perpendicular to the water tubes for side or top mounting. Brazing required.
DSH5P1-TO	150218	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is perpendicular to the water tubes for side or base plate mounting. No brazing required.

Each sensor head kit includes:

(1) DSH5P1, (2) SO-100 oscillators, (2) 10' BNC cables, (2) 6" BNC cables, (1) PSV-100 pneumatic valve and (1) package of 10 each SC-101 crystals

DSH5P1-SB Kit	150908-SB	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting. Brazing required.
DSH5P1-SO Kit	150908-SO	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is parallel to the water tubes for side or base plate mounting. No brazing required.
DSH5P1-TB Kit	150908-TB	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is perpendicular to the water tubes for side or top mounting. Brazing required.
DSH5P1-TO Kit	150908-TO	Dual sensor head with shutter, 2.54 cm (1") bolt feedthrough. Crystal face is perpendicular to the water tubes for side or base plate mounting. No brazing required.

