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FOR IMMEDIATE RELEASE

MICROPAC RETURNS TO MARS! HALL EFFECT SENSORS ON MARS SCIENCE LABORATORY

GARLAND, TX (11/10/2008) - Micropac hermetic Hall Effect Devices are being used by Alliance Spacesystems, LLC, and Malin Space Science Systems in camera mechanisms on the MSL Rover. Malin Space Science Systems' Mast Camera (MastCam) and the Mars Hand-Lens Imager (MAHLI) will use focus, filter wheel and cover mechanisms designed and produced by Alliance Spacesystems. Two MastCams, high-resolution color cameras, each with a different focal length, are mounted to a mast about 2 meters above the Mars surface, imaging the area immediately around the rover and studying distant objects that the rover cannot reach physically. MAHLI, mounted to the turret at the end of the rover's sample acquisition robotic arm, is designed for close examination of rocks and soils, to reveal details smaller than the width of a human hair.

Micropac's Hall Effect position sensors are used in the focusing mechanisms on both cameras, as an indicator of the position of MAHLI's protective lens cover, and to provide precise indexing of MastCam's filter wheel to align 1 of the 8 filters to the lens assembly. Micropac Hall Effect sensors were chosen for their extreme low temperature capabilities—they have demonstrated their robustness by surviving temperatures as low as -135C and operating at -70C in qualification testing.

Micropac Industries Inc. also provided High Voltage Opto-Isolator and Solid State Relay components on the Phoenix Lander, which landed on the surface of Mars earlier this year.

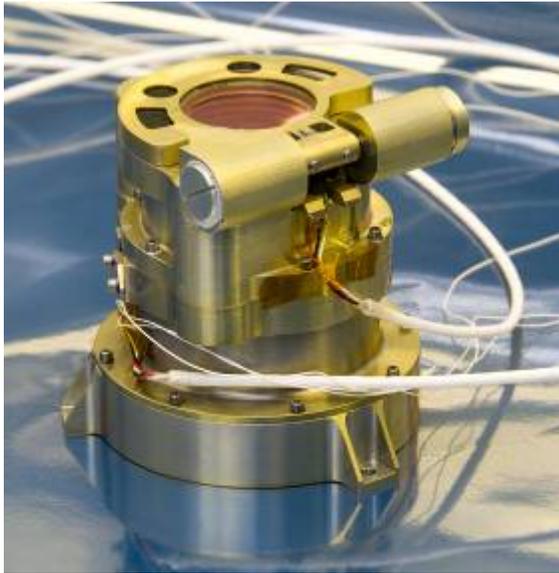


Photo courtesy of Alliance Spacesystems, LLC

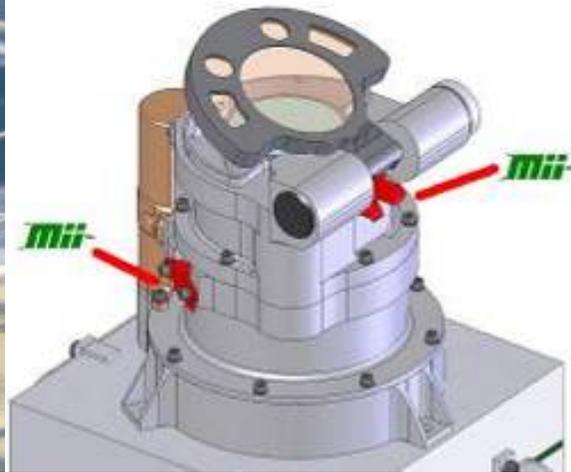


Photo courtesy of Alliance Spacesystems, LLC

About Micropac Industries

Founded in 1963, Micropac Industries, Inc. is a diversified, high technology company located in Garland, Texas, specializing in high reliability microcircuit multi-chip modules, Hall Effect devices and optoelectronic components/assemblies. Micropac develops and manufactures complete custom designs to meet specific customer applications and requirements. Our products are being used throughout the world in a wide variety of military/aerospace, space, medical and industrial applications. Visit www.micropac.com for more information

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