

**JUSTIFICATION FOR SOLE SOURCE/BRAND NAME SOLE SOURCE <\$150K**

**PLEASE FILL IN ALL APPLICABLE BLOCKS BELOW.  
A NARRATIVE MUST BE ADDED TO ALL APPLICABLE SECTIONS.**

<b>PO Number:</b>		
The effort listed on this form is for: (please mark one):	<input type="checkbox"/>	<input type="checkbox"/>
The material and/or service listed on this form is (please mark one):	✓ Sole Source	✓ Brand Name

**Restricted to the following source or manufacturer:**

- Manufacturer Heitronics Infrarot Messtechnik GmbH
- Manufacturer POC and Phone Number: +49 611 97393 0
- Manufacturer Address: Kreuzberger Ring 40, 65205 Wiesbaden

**Description of the item(s) or service(s) required and the estimated cost(s):**

Item#	MFG Name	MFG Part#	Description	Qty	U/I	Unit Price	Ext Price
1	Heitronics	CT[REDACTED]15.10	Infrared pyrometer	2	EA	[REDACTED]	[REDACTED]
2	Heitronics	CT15-Offshore Housing	Protective housing, first unit required \$515 engineering cost	1	EA	[REDACTED]	[REDACTED]
3	Heitronics	CT15-Offshore Housing	Protective housing, second unit	1	EA	[REDACTED]	[REDACTED]
4	Shipping	shipping		1	EA	[REDACTED]	[REDACTED]

1. List the Required Delivery Date (RDD) or Period of Performance (POP):  
Equipment required by 15 Dec 2016

2. Specify characteristics of the material or service that limit the availability to a sole source/brand product (unique features, function of the item, etc.). Describe in detail why only this source/brand can furnish the requirements to the exclusion of other sources/brands.

The Naval Postgraduate School needs two infrared pyrometers to properly measure radiant energy from ice/water surfaces and the sky at ambient temperatures as cold as -20C during an upcoming polar project. Pyrometer temperature range will be -100C to +60C (or higher). Pyrometers need integrated protective housings to keep out moisture while operating in a marine environment. Only one company was found offering an integrated IP67 waterproof housing along with all other requirements (see #3 below).

3. Indicate if the requested material or service represents the minimum requirements of the Government.

The manufacture's product meets all the below requirements of the Government.

Chopper-stabilized infrared pyranometer measuring in the 8-14 micrometer wavelength band. Pyrometer temperature range will be -100C to +60C (or higher) and be able to operate at ambient temperatures as cold as -20C. Lens shall provide 9 degree field of view. Output shall have RS-232 interface and/or analog proportional to temperature within the range of 0 to 5 VDC. Power shall be 10.5 to 30 VDC. Cable of 5 m or longer will be included. Sensor shall have IP67 protection. Weatherproof housing shall also be provided giving an extra level of protection to sensor and cable entry.

4. Indicate if the material or service must be compatible in all aspects (form, fit, and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect or interface with the existing system.

The required Brand Name Sole Source products will be new equipment and is required to comply with the Government's requirement as stated in number 3.

5. Does a patent, copyright or proprietary data limit competition?

The manufacture sells these items on a commercial basis and it is very likely that the equipment is under a patent, copyright, and proprietary.

6. Are the items "direct replacement" parts/components for existing equipment? If so, provide the information about the Next Higher Assembly (NHA)/equipment which the replacement parts are going into (e.g., description, model, part number, Original Equipment Manufacturer (OEM), etc.).

Not applicable.

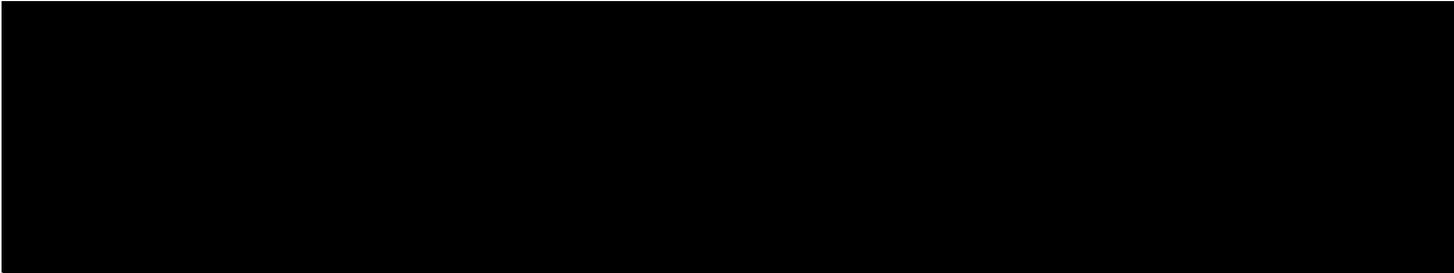
7. Provide any additional information to support a sole source/brand name sole source procurement. The rationale must justify "either" substantial duplication of cost to the Government that is not recovered through competition or unacceptable delays in fulfilling the mission of the agency.

Obtaining useful infrared temperature data for ice and water surfaces, as well as sky temperatures, in extreme cold, moist environments is very difficult. Fortunately, one company manufactures a sensor that meets our requirement and has USA resellers that are registered in SAM.gov. No other product was found in our web search and conversations with other researchers pursuing similar goals in measurement. Similar vendors make a standalone infrared sea surface temperature measurement systems, however Heitronic infrared temperature sensors are the most stable in their design and have the best specifications for this type of measurement.

A reseller small business market exists for the manufacture to reseller the required items.

**TECHNICAL OR REQUIREMENTS CERTIFICATION**

I CERTIFY THAT THE STATEMENTS CHECKED, AND INFORMATION PROVIDED ABOVE ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT THE PROCESSING OF THIS SOLE SOURCE/BRAND NAME SOLE SOURCE JUSTIFICATION PRECLUDES THE USE OF FULL AND OPEN COMPETITION.



**CONTRACTING OFFICER APPROVAL:**

