

[Technical release]

April 03, 2006

To whom it may concerned:

Company name : NAGANO KEIKI CO., LTD.
(hereinafter referred to as "NKS")
Function and name of director : Shigeru Miyashita,
President and Representative Director
(Second Section of the Tokyo Stock Exchange ; Code No. 7715)
Contact person: Masahiro Mashima,
Board Director,
Manager,
Management Planning
(TEL 81-3-3776-5379)

Start of in-house manufacturing of FBG sensor measurement instruments

NKS has started in-house manufacturing of optical fiber bragg grating sensor (FBG sensor) measurement instruments . An announcement about this product will be made at INTERMEASURE 2006 held from April 5 and a demonstration system of an application using the sensor system will be exhibited there. These measurement instruments are newly developed for in-house manufacturing based on the FBG sensor-related technology introduced by the license agreement with U.S. based company, Blue Road Research. These instruments and FBG sensor allow measurement of strain and temperature in various areas and applications.

Sensors with optical fiber have high resistance to electromagnetic noise and have excellent explosion / weather resistance. Moreover, FBG sensors have high sensitivity as point sensors and are capable of measuring multiple physical values with one optical fiber at high speed. Thus future more widespread use of this instrument in structural strain diagnosis, etc is expected.

"PF-25", high-speed single axis FBG sensor measurement instrument and "PF-35", double axis FBG sensor measurement instrument have been commercialized. For "PF-35", sensor connection up to 8 channels is available.

Planned standard price is as follows: "PF-25" for 6,000,000 JPY, "PF-35" for 6,500,000 JPY.
20 units are planned to be manufactured in the first year.

[Key features]

1. PF-25

(High-speed single axis sensor measurement instrument)

- High speed sampling
- Wide range of measurement wavelength(1530 to 1560 nm)
- Up to 4 channels are connectable



2. PF-35 (Double axis sensor measurement instrument)

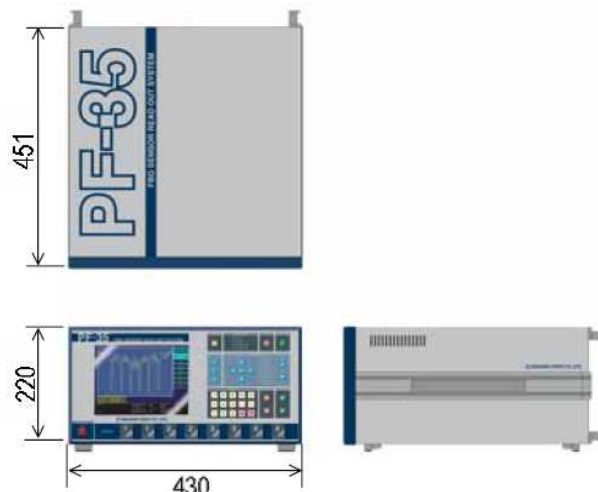
- Capable of measuring double axis fiber grating sensor as well as single axis one
- Up to 8 channels are connectable



[Manufacturing specification of the product]

	PF-25 (High-speed single axis sensor measurement instrument)	PF-35 (Double axis sensor measurement instrument)
Measurable sensor	Single axis optical fiber grating sensor	Double axis optical fiber grating sensor
Maximum number of sensor elements (per 1 channel)	50 elements (where measurement range is 1000 μ ϵ)	30 elements (where measurement range is 1000 μ ϵ)
Wavelength band	1520 to 1570 nm	1530 to 1560 nm
Accuracy of wavelength measurement	\pm 50 pm	\pm 50 pm
Repeatability of wavelength measurement	\pm 5 pm	\pm 5 pm
Measurement power range	10 to - 23 dBm	10 to - 23 dBm
Laser output	10 mW	10 mW
Operating temperature range	0 to 50 Celsius	0 to 50 Celsius
Power supply	AC 100V (50/60Hz)	AC 100V (50/60Hz)

[Outside dimension]



For details of FBG sensor measurement instruments, please contact the person below:

Munenori Tsuchiya

Manager,

Development Section 1, R&D Center

(TEL : 81-268-41-1033)

End