

## *Production/Technology PR Report No.34*

### 1. Outline of Firm

Name of Firm	SHOWA ELECTRONICS CO., LTD		Name of Representative	Toshiaki Miyazawa			
			Person in Charge	Hisaji Tabe			
Activities	Manufacture and sales of electronic equipment etc.		U R L	<a href="http://www.shawa-ele.jp/">http://www.shawa-ele.jp/</a>			
Main Products	Memory coder, automatic printer, various measuring equipment, safety equipment system, load control system, R-X analyzer in accordance with JR technical research institute, voltage transformer measuring equipment, harmonic content measuring equipment, synchronization tester, fault point rating equipment, data logger, etc.						
Address	2-9-9, Kitazato, Sagamihara City, Kanagawa						
Tel. Number	042-778-2112 (representative)		FAX Number	042-778-4738			
Capital (M yen)	10	Founded in	Aug. 31, 1973	Sales (M yen)	290	Employees	30

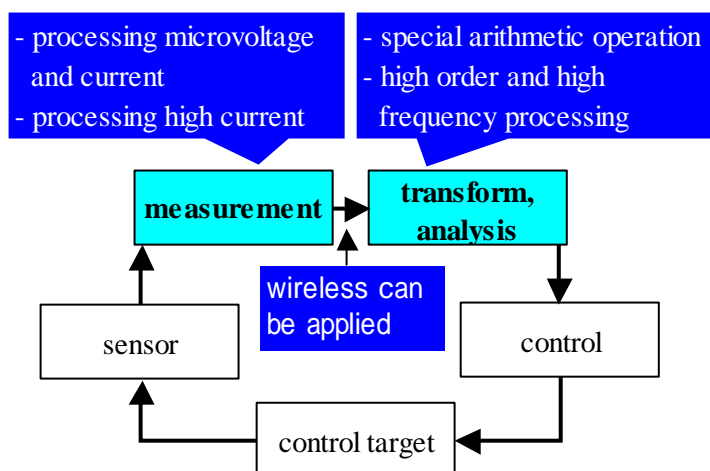
### 2. PR Items

*SHOWA ELECTRONICS provides optimum equipment and system to meet diversified needs of our clients in signal measure and its transform and analysis fields.*

#### Measuring equipment and system

We can control and manage any objective by outputting to various media by constantly measuring changed of electric phenomena and performing arithmetic operations. We aim at high function, high-performance, and high-quality products and services, and make full use of the latest technology so that complicated operations can be successfully removed.

We optimize the specifications of our customers by considering the characteristics of objects to be measured and diversification of purposes of control (for example, maintenance of facilities, prediction, etc.).



#### High-order harmonic measuring equipment

Voltage and current of alternating current are fetched, waveform is continuously analyzed, and effective value, torsion rate, and specification - wave analysis, continuous analysis, etc. from basic wave to 150th order are displayed and recorded. The characteristic is a use of optical CT in fetching current.

#### Detection and transform equipment

State of object to be measured and controlled is detected by electric signal. direct current can be detected by our patented (No.3326737) direct current sensor. We can provide various products including inverter equipment (recognized by Hitachi) for transforming direct current into alternating current for controlling power source.

**3. Remarks**

- Patent: Three-phase power measuring equipment, communication protocol conversion equipment, direct current sensor, and other 9 cases being filed for patent
- Utility model: memory coder with waveform analytic function, harmonic analysis method and its apparatus, and other 4 cases being filed.
- 2003 Won prize for excellent business in Kanagawa
- 2005 License contract on "Optical fiber using Faraday effect" with Tokyo Electric Power and HOYA.
- 2006 Exhibited in "Inno Trans Exhibition" held in Germany in September, 2006.