

- Complete production equipment for power supply, circuit card, and wire harness assembly and test.

- Depot level support equipment including CF-18 EW support equipment (power supply fill group, power supply assembly & sub-assembly test stands, USM 392 Analog/Digital test stand, microwave test station & temperature chambers), and CP-140 acoustic data processor support equipment comprising 11 test stations (e.g., analog, digital, power supply, circuit card assemblies, WRA).

**EXPERIENCE:** Sanders Canada Inc's present customers include the Canadian Forces, the USN, Sanders Associates, Lockheed, and Litton Canada.

**KEYWORDS:** R&O (Avionics); Electronic Warfare; Circuit Card Assembly; Power Supplies; Harnesses; TPS Development.

**REVISED:** January 88

## SCI-TEC INSTRUMENTS Inc

**ADDRESS:** 1526 Fletcher Road  
Saskatoon, Saskatchewan, Canada  
S7M 5M1

**CONTACT:** Mr Neil Foulds, President - (306) 934-0101

**HISTORY:** Sci-Tec Instruments Inc is a Canadian-owned high-technology electronics company incorporated in 1981. There are no other Canadian or US facilities.

**CAPABILITY:** Sci-Tec Instruments was established to design, manufacture and market high quality scientific and industrial instrumentation and electronic systems. They can offer a broad range of capabilities in data acquisition, microprocessors, communication, remote sensing, remote control systems, as well as electronic system engineering and instrumentation from the conceptual stage through to delivery of a finished product. Along with the capability of machining components for their products, in-house machining experiences have included a range of intricate, close tolerance machining in satellite low noise amplifier housings, rocket payload extend/retract mechanisms, payload booms and payload prototyping.

The management objectives for the company are comprised of continued market penetration for their three main products and diversifying its operations to include US Government solicited contracts in areas of research and development and off-load or subcontract opportunities in the scientific and industrial electronics fields.

**AVERAGE WORK FORCE:** Scientists and Engineers - 4  
Others - 11

**GROSS SALES:** 1986 - \$1.5M  
1987 - \$1.5M

**PLANT SIZE:** 7,200 Sq Ft

**EQUIPMENT:** Sci-Tec Instruments employs the following equipment:

- Electronics - Microprocessor development system for development and test of software and hardware. Lab test equipment for the R&D and production testing of products and prototypes. Optical assembly and alignment facility which includes a laminar air flow bench, lasers and optical benches. Drafting facilities for mechanical, electronic and printed circuit boards.
- Machining - CNC Mill/Precision engine lathe and other machine shop facilities to manufacture precision components.

**EXPERIENCE:** The "Brewer Ozone Spectrophotometer" was jointly developed by Sci-Tec and the Canadian Government. The Brewer is a highly sophisticated instrument capable of monitoring ozone (O3) and sulfur dioxide (SO2) atmospheric overburdens and vertical concentration profiles. In addition, this instrument is presently being used in monitoring the horizontal irradiance in the ultraviolet and has been further developed to provide automatic azimuth and elevation tracking with additional features allowing for unattended operation. The Brewer

is sold world wide to various governments, universities and scientific organizations.

The "Cosmos Tracking System" was developed to meet demand for a two-axis, microcomputer controlled point/tracking system. Applications for this device include pointing specialized scientific or industrial instruments at celestial objects and tracking as it moves through the objects' trajectory. Because of the medium load capability (100 lbs maximum), they expect the market to expand in the near future to cover a wide range of industrial, space and military applications.

An exclusive manufacturing and marketing license was secured for the "High Line Data Acquisition System" (HILDA). This instrument is the foremost system for measuring vibration on high voltage (730 kV) transmission lines. The ability of the system to provide remote, unattended measurements over a long time frame is expected to increase utility and maintenance/installation groups' demand for this instrument.

Worldwide exclusive licenses exist to manufacture and market two petroleum industry related products - the Fluid Level Monitor and the Posi-Stop Block Limit Control System. These products reached commercialization in early 1985.

The Petro Tag will uniquely facilitate automated inventory control of contained hazardous and non-hazardous fluids in the petroleum and petro chemical industries. The Petro Tag is cost-comparable and a more accurate device than existing electronic and mechanical monitors.

The Posi-Stop Block Limit Control System is a patented solid state device designed to prevent the traveling block on a drilling rig from moving past preset upper and lower limits in the derrick. This micro-processor based product assists in preventing rig personnel injuries from hazardous traveling block breaks as well as assisting rig operators to determine and increase drilling efficiency. The Posi-Stop System is seen as a replacement for conventional systems due to reliability and ease of use and installation.

**KEYWORDS:** Data Acquisition; Environment; Image Processing; Instrumentation; Machining; Microprocessors; Remote Control Systems; Remote Sensing; Software Development; Software Services; Space Systems; Systems Design; Systems Engineering; Telemetry Systems; Testing/Test Equipment.

**REVISED:** February 88

## SCINTREX Ltd

**ADDRESS:** 222 Snidercroft Road  
Concord, Ontario, Canada  
L4K 1B5

**CONTACT:** Dr H O Seigel, President - (416) 669-2280

**HISTORY:** Scintrex Ltd began as Sharpe Instruments Ltd in 1947 and was incorporated as Scintrex Ltd, a public Canadian owned company, in 1967.

Scintrex Defense Products Division is a supplier to the US DOD of high sensitivity portable (Mark 22) magnetometers for explosive ordnance detection. In addition, it supplies area radiation monitors (AN-GDQ-3) for the determination and transmission of the level of nuclear radiation around strategic locations. Similar military-specification radiation monitors are being developed for mobile applications (ship, vehicle and aircraft installations). An explosives vapor detector (bomb sniffer) has been developed in conjunction with the National Research Council of Canada for defense against acts of terrorism. The potential application of laser-based, active remote sensing methods to certain defense problems is now being investigated. In addition, a detector of PGDN vapors from OTTO II Torpedo fuel has been developed on behalf of the Canadian Department of National Defence and provided to the Canadian Navy for use in their depots, ships and submarines to protect personnel against these toxic vapors.