

Contact: Mr. Richard Marquis, General Manager -
(514) 739-3274

History: CanTherm was founded in late 1977 to continue the manufacturing and research program previously carried out by the defunct Multi-State Devices Ltd. They are closely associated with Microtherm GmbH of Pforzheim, West Germany, the leading European manufacturer of bimetallic temperature control devices.

Capability: With its acquisition of MSD, CanTherm inherited an active R&D department which has continued to expand in many areas of microelectronics and thermal control. Their first order of priority was to finalize the Moxie from a laboratory prototype to a reproducible chip. They have expertise in the fields of metallurgy, vacuum system depositions (sputtering), and semiconductor production techniques as a result of their initial projects. Early on, they were awarded a two year development grant from the Canadian National Research Council to develop a thin film thermister with tolerances $\pm 1\%$ at 25°C. Other specifications included maximum interchangeability and volume productibility at a market acceptable cost. The project was successfully completed within two years and the product is in the North American and European markets.

Average Work Force: Total - 12

Gross Sales: No Data

Plant Size: 5,000 sq ft (manufacturing)

Experience: CanTherm's product market is world wide. On the North American continent, they work with the Canadian Government, industry, and have an on-going contract with the USAF.

Keywords: 4 = Chemistry; 7 = Electronics; 9 = Environment; Microelectronics = 7; Thermal Control = 7; Chips = 7; Metallurgy = 4; Vacuum Deposition = 4; Sputtering = 4; Semiconductor = 7; Thin Film = 7; Thermister = 7; Environmental Sensor = 9; Solid State Devices = 7.

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CARDION ELECTRONICS/DG INSTRUMENTS (Division of General Signal Ltd)

Code: DGI

Address: Regional Road 5
RR #2
Carp, Ontario, Canada K0A 1L0

Contact: John T Dale, Marketing Manager - (613) 839-5710

History: Formerly operated under the name DG Instruments Ltd, Cardion Electronics/DG Instruments is a Canadian owned company founded by four former employees of Leigh Instruments Ltd and incorporated in Jan 1974. DG Instruments was acquired by General Signal Ltd in February 1982. They report to Cardion Electronics, a unit of General Signal Corp, Woodbury, NY.

Capability: Cardion/DGI specializes in the design, development, test and manufacture of electronic instruments and systems for both military and commercial applications. Customers are primarily in Air Traffic Control, Avionics, Meteorological Marine, and Hydrographic Services. Systems include solid state ATIS recorder, portable ATC trainer, VOR ground check, solid state anemometer, helicopter air data system, electronic ice measurement, submersible tide gauge, hydrographic navigator, and ships propeller RPM indicating systems.

Average Work Force: Engineers - 8
Others - 32

Gross Sales: No Data

Plant Size: 13,800 sq ft

Experience: Cardion/DGI has completed a contract with Cubic Corporation to manufacture and test electronic subsystems associated with the ACMR tactical trainer for the CF-18A. They have completed delivery of a contract to supply Canadian DND with 27 Air Control Indicators - total value \$4M, and have commenced delivery of an additional five systems. Major customers in the Canadian Government include Departments of National Defense; Transport; Fisheries & Oceans; Energy, Mines & Resources; Communications; and Environment.

Keywords: 3 = Avionics; 7 = Electronics; 20 = Miscellaneous; Solid State Devices = 3, 7, 20; Recorders = 7; Air Traffic Control Simulators = 7, 20; VOR Ground Check Systems = 7; Anemometer = 7; Helicopter Air Data Systems = 3; Ice Measurement = 7; Tide Gauge = 20; Navigation = 7, 20; Ship Instruments = 7, 20; Tactical Trainer Subsystems = 20; Air Control Indicators = 7, 20; Instrumentation = 3, 7, 20.

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CARR-TECH SERVICES Ltd

Code: CTS

Address: 450 Tapscott Road
Scarborough, Ontario, Canada M1B 1Y

Contact: Mr. R G Baldock, President - (416) 293-6400

History: Carr-Tech Services Ltd is a chartered, privately owned Canadian company with roots in the aerospace industry going back to 1947 when its founder, Mr. R J Carriere, first began servicing aircraft at Toronto Island Airport.

Capability: The company is engaged in engineering, manufacturing, repair, overhaul, and field service operations involving military and commercial aircraft electronic, electrical and hydraulic accessory equipment; electrically controlled hot water dispensing systems for aircraft; and diesel, gasoline, or electrically driven ground power equipment. Other capabilities include custom designed power generation equipment for standby and prime source applications together with related electronic control, monitoring and protection equipment for the industrial, commercial transportation and agricultural markets.

Carr-Tech can also undertake subcontract programs (including custom designed or built to specification) for the manufacture of power supplies, regulators, inverters, control and annunciator panels, air and ground rotating beacons, landing lights, portable and emergency lighting equipment.

Carr-Tech Services Ltd implements a well established quality assurance program to ensure that all products and services supplied by the company are controlled to obtain the best possible quality and reliability, commensurate with economical and competitive cost considerations. The Chief Inspector of their Quality Control Department has over 25 years experience in aerospace and industrial quality control practices and procedures.

Carr-Tech's inspection organization and facilities are approved by the Department of Transport in respect of products supplied for use in civil registered aircraft and their Quality Control operation is recognized by the Department of National Defense as meeting the requirements of DND Specifications 1015 (MIL-Q-9858A), 1016 (MIL-I-45208), 1017, and 1019. In