

Foundation Instruments Inc.

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OTM-6400 multiplexer

■ The OTM-6400 Optical Transmission Multiplexer is a TDM multiplexer designed to concentrate both digital and analog signals from RS-232-C, RS-422-A, TTL levels, telephone 2 and 4 wire circuits, T-1 audio or any combination thereof. Each channel uses an independent plug-in card that provides flexibility in the type of interface used, as well as ease of maintenance and testing. Up to 90 channels can be mixed over 2 fibres for bi-directional use.

Company Profile

Foundation Instruments Inc., established in 1977, specializes in the research, design, development and manufacture of fibre-optic equipment for the communications industry. Products and systems include single-mode and multi-mode transmission systems for video, data and voice; an "intelligent" single-mode and multi-mode fusion splicer; a 20-channel asynchronous data multiplexer; a multi-mode portable fusion splicer; optical fibre cable; and optical attenuation test equipment; plus all supporting hardware components required in a system. The company also offers custom design and development. Foundation has supplied its products to many countries including France, Italy, Mexico, Norway, Spain, the United Kingdom and the United States.

**Garrett Canada
 A Division of Allied-Signal Canada Inc.**

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Air traffic control radios

■ Garrett Canada manufactures a family of solid-state VHF/AM single-channel transmitters and receivers for fixed station ground-to-air communications. The Model G 2000T is a single-channel transmitter operating in the 117.5 to 137 MHz frequency band with an adjustable power output from 10 to 25 W. The unit incorporates an audio compressor to reduce the modulation depth variation and a built-in transmit/receive relay. The equipment features fault isolation and monitoring with protection for excess voltage, current and temperature. The Model G 2000R is a single-channel receiver of plug-in modular construction. An audio compressor is incorporated to ensure constant audio output. The unit is fitted with a



OTM-6400 multiplexer

front panel test matrix for fault isolation and protection for excess current. Both transmitter and receiver are equipped with an automatic change-over facility to 24-V dc stand-by power.

Instrument landing system test sets

Garrett Canada is producing portable instrument landing system (ILS) test sets for ground checking, alignment, trouble-shooting and as a precision laboratory standard in measurement of ILS signals. The test set incorporates microprocessor control and digital signal processing. The high-performance receiver section, including a synthesizer, enables low-noise linear reception of all localizer and glide path channels. The detected ILS signal is digitized and processed by a fast Fourier transform. Output parameters are accessed via an alphanumeric front panel display or by means of an external RS-232 bus connector. Software is organized in a "menu" structure, allowing all functions to be controlled, while viewing the front panel display, by depressing one of four push buttons. The rugged modular construction and digital signal processing enable a reliable and maintainable operation.

Company Profile

With its diverse range of products and strong commitment to a dynamic and progressive industry, Garrett Canada has established a leading technology base. The company designs, develops and manufactures electronic environmental control systems; airport, emergency and military communications products; the peripheral-vision display system; custom hybrid microcircuits; display systems; and missile fire control and actuation systems. Drawing on its many years experience in airport and aircraft communications products, Garrett also provides manufacturing and engineering subcontract services and customer support services. The company has acted as a consultant regarding the R.F. shielding requirements for air traffic control centres at Toronto, Montreal, Edmonton, Winnipeg and Calgary airports. Garrett is also providing engineering support to Transport Canada with regard to electromagnetic compatibility requirements for visual display units.

The company's 1 100 employees are housed in 23 000 m² (250 000 sq. ft.) of modern facilities. Garrett Canada is supported by the corporation's engineering and sales offices around the world. Allied Signal Inc. has offices in Brazil, China, England, France, Germany, Japan, Malaysia, Spain, Sweden and the United States.



Operator using portable signal analyzer

