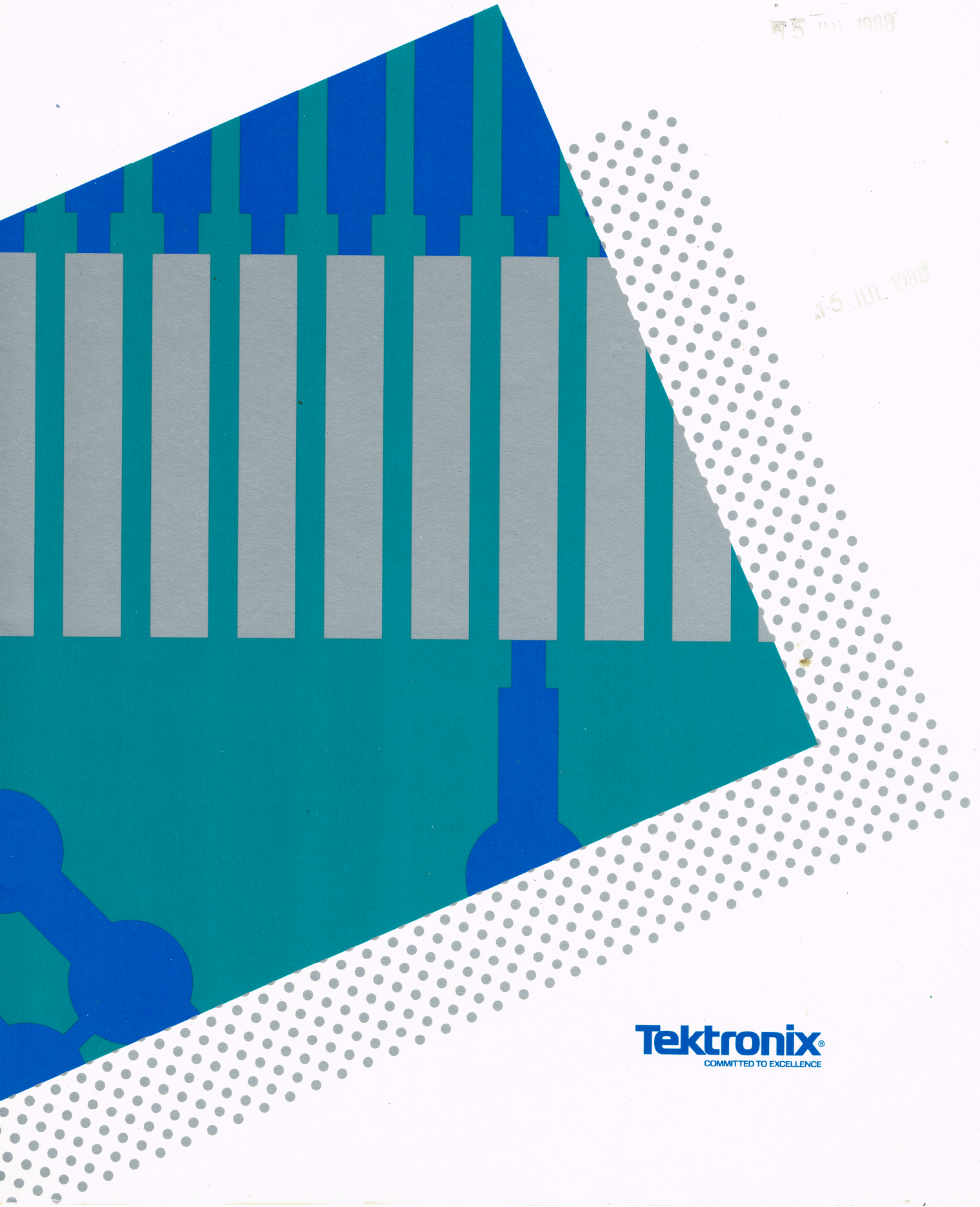


Tek Products 1988



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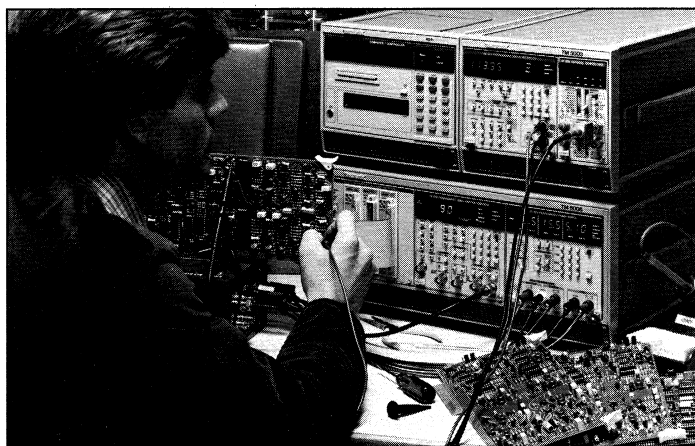
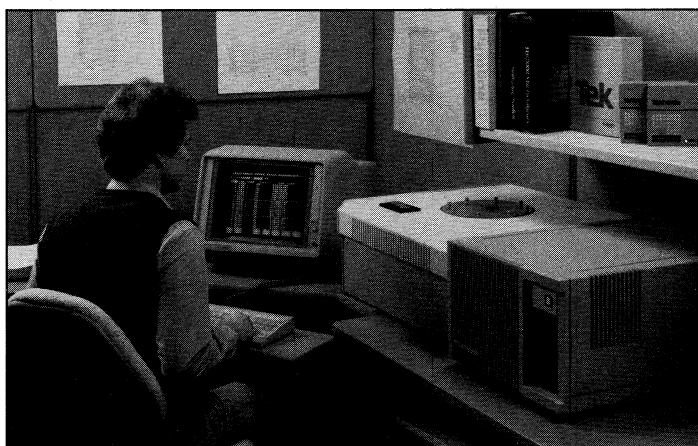
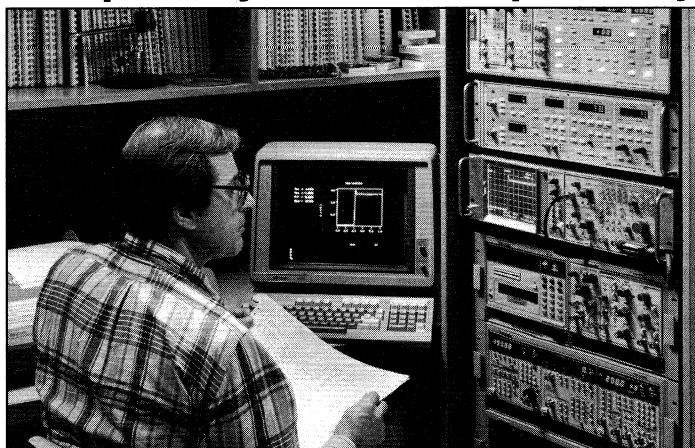
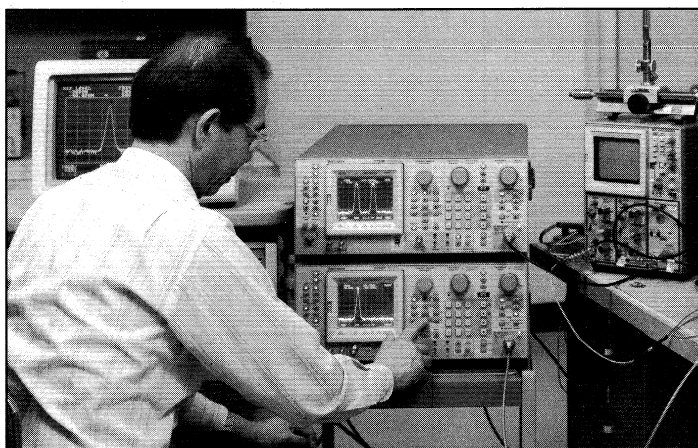
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Tektronix Means . . . Measurement Capability, GPIB Compatibility



Tektronix' Systems Experience

Long before publication of the IEEE Standard 488-1975, Tektronix had entered the test and measurement systems business. The measurement speed and capabilities of the Tektronix automated oscilloscope and Tektronix semiconductor test systems quickly highlighted the benefits to be gained from measurement automation. Just as quickly came the realization that a system interfacing standard was needed. But what standard?

The possibilities of the proposed IEEE Standard 488 were recognized. When the IEEE Standard 488 became reality, General Purpose Interface Bus compatibility was already an integral part of Tektronix product planning and engineering. The result is that Tektronix is now a recognized major supplier of a full line of GPIB system components—a supplier that puts more than a decade of systems planning, design, and implementation experience into each product.

In 1978 the standard was further refined (IEEE Standard 488-1978) to define an interfacing system that has become a widely accepted industry standard. The major areas it specifies are:

1. Mechanical—the interface connector and cable. See Table 1.
2. Electrical—the logic signal levels and how the signals are sent and received.
3. Functional—the tasks an instrument's interface may perform (such as sending data, receiving data, triggering the instrument, etc.) and the protocols to be used. See Table 2.

Today, a wide variety of instruments include interfaces conforming to this mechanical, electrical, and functional standard. These GPIB compatible instruments and instrument controllers make it possible to achieve the benefits of automated test systems without paying the previous price of custom system design. With GPIB compatibility, measurement capability can be chosen off-the-shelf and simply cabled with standard bus cables in either a linear or a star configuration.

TABLE 1. SUMMARY OF GPIB HARDWARE CHARACTERISTICS

- Cable lengths up to but not exceeding 20 meters (approximately 66 feet) with a device load required for every 2 meters of cable.
- Up to 15 devices (1 controller and 14 instruments) connected in linear or star configurations.
- Voltages generally TTL-compatible.
- GPIB signal and data lines asserted (or true) when pulled low ($\leq \pm 0.8$ V) and released (or false) when high ($\geq \pm 2.0$ V).
- Maximum data rate of up to 250K bytes/second over a distance of 20 meters, with 2 meters per device, or faster with some special restrictions (refer to IEEE Standard 488-1978 for details).