

IBM

*Customer
Engineering
Introduction to*



1030



Data Collection System



The IBM 1030 DATA COLLECTION SYSTEM provides a means of transmitting data through common-carrier facilities or private lines to a computer system or a card punch. Current data is, therefore, available for management and supervisory review at all times.

The IBM 1031 Input Station is available in two models. Both models have a similar exterior appearance and can contain a card reader, badge reader, and manual entry. The 1031A contains the necessary circuitry for communicating with a central output unit. The 1031B must operate through a 1031A to communicate with the central unit. Input to both models can be entered by card, badge, manual entry, or various combinations of these media.

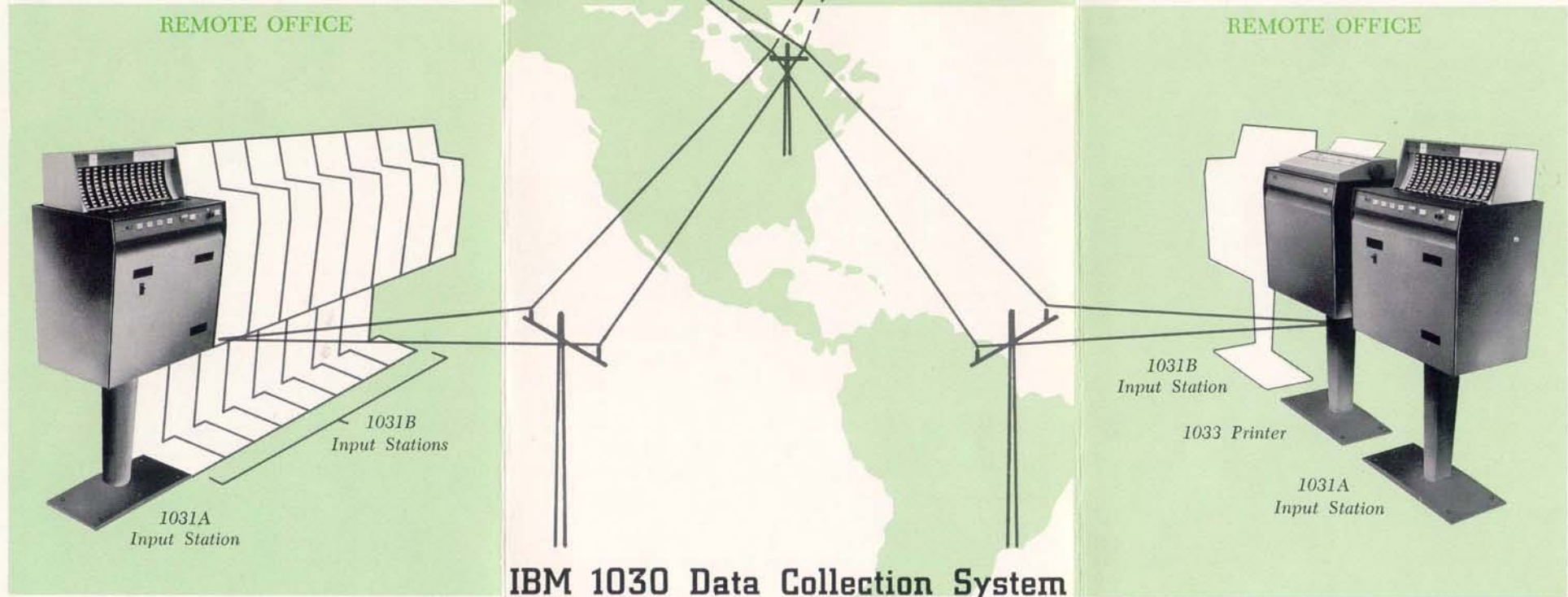
The IBM 1032 Digital Time Unit is a synchronous time unit with control circuitry composed of relays and SMS cards. At the cus-

tomers' option, master-clock control can be installed. The 1032 provides time of transaction to the central output unit, further describing the incoming data.

The IBM 1033 Printer operates in conjunction with a 1031A Input Station to print information from the central output unit.

The IBM 1034 Card Punch is the central output for an off-line 1030 system. The punch accepts transmission from one station at a time and checks data received for parity and record length.

The Central Computer System used by the 1030 system is an IBM 1448 Transmission Control Unit attached to an IBM 1440 Data Processing System. A polling function within the 1448/1440 selects the station to transmit at any given time, thereby tying the individual stations into a centrally controlled data collection system.



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Features of the IBM 1030 DATA COLLECTION SYSTEM include:

- *Solid-state transmission circuitry.*
- *Functional SMS packaging* enables individual circuits to be contained on one or two SMS cards.
- *Two-wire transmission* from the 1031A to the central output unit.
- *Input edit* prevents requesting the transmission line before all input requirements are satisfied.
- *Card-insertion control* has corner-cut sensing to detect cards inserted backwards or upside down.
- *Portable CE diagnostic aid* is provided for off-line servicing of input stations and printers.
- *All mechanical units pivot* for easy access.

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Form 229-2025-0