Teletype Corporation

model 42 BSR 5-level buffered teleprinters for multi-point systems
Capabilities for the Challenging 80's
For multi-point private line users, the Teletype® model 42 buffered tabletop teleprinter is creating exciting possibilities for the challenging 80's. Flexibility is outstanding. And options and features have never been better. Leading-edge technologies and an innovative design have produced a truly cost-effective terminal in support of 5-level selective calling applications. The 42 BSR produces one of the highest throughputs for your investment today... and one of the lowest costs of ownership.

Application Oriented Family
The multi-point private line model 42 BSR is a member of our 42/43 buffered teleprinter family consisting of 5 and 8 level terminals for point-to-point switched network/private line and multipoint private line applications. The architecture of this family allows for easy migration from one product to another simply by changing firmware and some keytops.

Offers a Number of Advantages
For companies looking to enhance their communications capabilities or to gain better control over their dispersed operations, our 42 BSR teleprinter offers a number of advantages—faster, more effective data flow—efficiencies that simplify the most complex data exchange—user-oriented features for ease of operation—powerful error controls for greater accuracy—flexibility to support your needs now and in the future—economy of operation—and the 42's record for remarkable reliability.

Economical, Efficient Replacement
What's more, 42 BSR stations are so economical to own, operate and maintain that even low traffic locations may be added to your communications system... and so efficient that replacement of your present stations with the 42 BSR may prove not only desirable but expedient.

More Features/Options at No Extra Cost
Our stations are loaded with features and options that focus on making your system more productive and responsive. All are standard. Many are either not available on other teleprinter stations or are available only as extra cost items.

Keyboard Selectable Options
Facilitate Customizing
42 BSR Stations can be easily customized for integration into your communications system without experiencing painful compromises, software changes and complicated debugging. A listing of 82 installer options is stored in the terminal's non-volatile memory. Via the keyboard you select the speed, replies to polling and addressing, sending and receiving responses, and others. You can change any option in seconds. Those selected can be protected from being altered by unauthorized personnel.

Load Routine Simplifies Programming
Our convenient Remote Options Load Routine allows for efficient programming of operating parameters for all 42 BSR stations on your system. All options can be received over the communication line in the form of a message, i.e., "down-line" option loading. Not only does this feature make it simpler and faster to program each station, it also assures you that all stations are identical in operation.

Versatile Controller Contributes Efficiencies
At the heart of the model 42 BSR is a powerful microprocessor based controller. This versatile unit provides for 16,000 (16K) characters of solid-state buffer storage and makes possible many efficiencies in sending, receiving and editing message traffic. You can allocate the 16K of buffer storage as your message traffic dictates... takes only seconds.

Local/Line Operation Increases Productivity
Messages can be prepared and edited locally while messages are automatically sent or received on-line via the teleprinter's buffers. This simultaneous operation allows your operator to concentrate on speed and accuracy without being subjected to interruptions.

Aux Port Accommodates Punch/Reader Module or Auxiliary Printer
Modular design permits you to select as much flexibility as your applications demand. If you have need for a permanent, removable storage medium, for example, you can add our paper tape punch and reader module. It conveniently plugs into the teleprinter's Auxiliary Port. What's more, the port is separately addressable and includes a buffer to accommodate higher line speeds.

Or you may elect to use the Auxiliary Port to add a Teletype model 40 line printer or model 42 or 43 Receive Only character printer to permit simultaneous message preparation and printout of received traffic. This arrangement can be highly productive because incoming traffic can be printed immediately at up to 300 lines per minute to accommodate increased station traffic while also satisfying various forms handling requirements.

Complete Message Printout
One option permits received messages to be printed only if the required end of message control sequence was detected. Since only complete messages are viewed, there's less chance for misunderstandings and less wasted paper.
Compatible with 5-Level Protocols
Our versatile 42 BSR stations are compatible with a variety of Baudot protocols including 83A1, 83B3, CCITT-2, and others. They may be used with the following system operations:

- Centralized: Store and forward, station to host; host to station(s)
- Non-Centralized, Non-Contention: Store and forward and station-to-station (host controlled)
- Non-Centralized, Contention (No host required) station-to-station operation
- Host to Station

In addition, 42 BSR stations are capable of supporting the same asynchronous multi-point operations as our model 28 KSR/ASR based systems.

Priority Message Feature
Messages in the Edit/Send Buffer can be recalled anytime before sending and rearranged. In this way important messages/transactions can receive immediate attention.

Extensive Editing Capabilities
Operators can edit messages by deleting and inserting individual characters or by character overwriting. A full complement of editing controls simplifies and speeds the edit function. Changes can be proofed by the operator on an individual line basis or by printing the entire text.

Features Promote Operator Efficiency
42 BSR features promote operator efficiency by simplifying terminal operation, by reducing required operator intervention and by reducing key strokes.

Automatically Generates/Appends Control Characters
Operators needn't concern themselves with required message control sequences. They can be automatically generated and appended for each message—to simplify operation—save keystrokes.

Receive Retrieval Aids File Update
In file update applications the operator can call the CPU for a file, copy it from the Receive Buffer to the Edit/Send Buffer, make the necessary changes, and return it to the CPU.

Messages Retrieveable from Buffers
Operators can access messages in any of the buffers and move them into the Edit/Send Buffer for headressing or other reworking. An errored message remaining in the "Was Sent" portion of the Send Buffer may be retrieved and corrected very quickly. Only changes and additions need to be typed, not entire messages.

Comprehensive Diagnostics
Isolate Problems
With multi-point systems, it can take hours, sometimes days to determine responsibility for a problem. The comprehensive diagnostics of the 42 BSR can quickly isolate a trouble to the local or remote communications facility, the CPU, or to the teleprinter itself. If it's the teleprinter you can pinpoint the trouble to a specific component. Modular design makes replacement simple and fast—often only a few minutes.
FEATURES AND SPECIFICATIONS

General
- Transmission
  Facilities: 2 or 4 wire DC or Voice Grade
  Technique/Speed: Asynchronous from 45.55 to 2400 Baud
  (60 to 2400 wpm)
  Code: 5 Level Baudot (7.0, 7.5, 10.0, 11.0 unit)
- System Operation:
  Half-Duplex System, Half-Duplex Station
  Full-Duplex System, Half-Duplex Station
- Communication Interface:
  Current 20/60 ma; requires EIA to Current Adapter
  4031036 Modification Kit (125 VDC max.) or 420301
  Modification Kit (plus or minus 130 VDC max.)
  EIA RS232C; Data Sets 108, 202T
- Communication Function:
  Multi-Point Station selectivity (Poll/Select), Contention
- Protocol Compatibility:
  ANSI 3.28 Subcategories 1.1, 2.3 thru 2.8 A1,A3,E1
  using Baudot Logic Code
  CCITT-2 Procedures
  83A1/83B3 Compatible

Primary Printer
- Print Rate: 47 characters per second provides true
  30-character-per-second throughput including
  carriage return
- Print Line:
  Friction Feed: 80 char/line at 10 char/inch
  Tractor Feed: 100 char/line at 10 char/inch (can be
  modified for 132 char/line, 13 char/inch)
- Vertical Spacing: 6 lines/inch
- Line Feed: Single or double
- Paper:
  Friction Feed: 8-1/2 inches wide, 400-ft roll,
  original only
  Tractor Feed: 3 to 12 inches wide, up to 22 inches
  long and up to 4-ply (depending upon paper/carbon
  weight)
- Printing Technique: 7 X 9 dot matrix
- Character Set: 58 Baudot characters
- Automatic Letters/Figures Shift
- Paper Feed Options:
  - Form Length up to 22 inches
    (132 lines @ 6 lines per inch)
  - Fixed number of lines after end of Text
  - Feed on two optional, up to 4 character, sequences
- Signal Bell: Activated before and at right margin
  during data entry and on receipt of BEL
- Alarm: Low paper
- Ribbon Cartridge: Three-million characters
  (nominal)—easy replacement

Keyboard
- Arrangement: Typewriter-like with numeric pad;
  generates all 58 Baudot code combinations; includes
  N-key rollover feature

Buffer
- Buffer Size: 16K (16,000) characters
- Edit/Send Buffer: Dynamically divided into Edit Buffer,
  To-Be Sent Buffer, and Already-Sent Buffer
- Receive Buffer: Accepts all data from line, holds until
  printer becomes available. Consists of Primary Receive
  Buffer and Auxiliary Receive Buffer
  Numerous buffer controls and indicators

Auxiliary Printer (Optional)
- Printer Options:
  model 40 line printers, friction or tractor feed
  model 42/43 teleprinters, friction, pin or tractor feed

Paper Tape Punch and Reader Module (Optional)
- 5-level, 11/16 (17.5mm) fully perforated oiled paper
  tape – 1000 ft. (304.8m) supply
- 30 Character-per-second operation (maximum)
- Manual punch and reader controls.
- Punch Controls/Indicators: On, Off, Back-space,
  Feed, Alarm Indicator for low tape
- Reader Controls/Indicators: On, Off, Skip and
  tight tape and tape feed alarms
- Motor Control—Motors run only when required.
  Buffer prevents loss of data
- Chad Box, internal

Electrical
- Requirements: 115 VAC ± 10% 50/60 Hz
- Power Consumption: 75 watts
- Heat Generation: 255 BTU/hour

Dimensions & Weight (approx.)

<table>
<thead>
<tr>
<th></th>
<th>Buffered</th>
<th>Punch/Reader</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Send/Receive</td>
<td>Module (opt.)</td>
</tr>
<tr>
<td>Height</td>
<td>*5½” (13.97 cm)</td>
<td>5½” (13.97 cm)</td>
</tr>
<tr>
<td>Width</td>
<td>20” (50.8cm)</td>
<td>7½” (19.9 cm)</td>
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<tr>
<td>Depth</td>
<td>28” (71.cm)</td>
<td>28” (71 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>31 lbs. (14.09kg)</td>
<td>20 lbs. (9.09kg)</td>
</tr>
</tbody>
</table>

*add 3” for tractor feed

For further information on any Teletype Corporation product lines, or for the location of your nearest sales or
product service representative, please contact:

Sales Headquarters—
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