
TABLE OF CONTENTS

PREFACE

Organization of the Operations Manual	1-1
General Information	1-2
Language Selection	1-2
Alternate Consoles	1-3
Multiple Printers	1-3
Reports and Screens	1-3
Special Function Keys	1-3
Data Interrupt Keys	1-4
Edit Mode Key	1-4
Invoking the Field Editor	1-5
Screen Browser Function Keys	1-6
Pattern Search Keys	1-7
Program Criteria	1-8
Alternate Consoles	1-8
Multiple Printers	1-8
Capitalization	1-8
Office Name Abbreviations	1-8
Dash Placement	1-9
Non-Essential Alphabetical Characters	1-9
List/Range Syntax	1-9
Office Name Syntax	1-9
Task Number Syntax	1-10
Selecting Devices by Device Number	1-10
Selecting Devices by Access Number	1-10
Selecting Devices When Access Number Translation Enabled	1-11
Special Wildcard Entry	1-11
Spreadsheet Selection	1-12
Kilo and Mega Data Values	1-12
Quit/Logoff	1-12
Help Screens	1-13
Choosing an Option That Is Not Displayed	1-13
Question Mark	1-13
Arrow Keys	1-13
Number Keys	1-13
Default Option	1-13
Time Default	1-13
Documentation Conventions	1-13
Case Sensitivity	1-14
Typographic Conventions	1-14
PressureMAP Device Type and TD Type Tables	1-14

PRESSUREMAP

Introduction	2-1
Getting Started	2-2
The Master Menu	2-3
Introduction	2-3

OPERATIONS

PressureMAP Options and Functions	2-3
Dispatch Priorities	2-3
Device Histories	2-4
Specific Device Information	2-4
System Indexing	2-4
CPAMS Information	2-4
User Support	2-5
USAM Information	2-5
Quit	2-5
Mega Office Support	2-5
Dispatch Priorities	2-6
Introduction	2-6
Selecting Offices for the Dispatch Report	2-7
Analyzing the Dispatch Report	2-7
Priority Level Ratings	2-9
Star Ratings	2-9
Routine Ratings	2-10
Aged Dispatches	2-10
Sharp Sign Ratings	2-10
CLRD Dispatches	2-10
Dispatch Activity Status Line	2-11
The LONG Dispatch Priorities Report Option	2-11
The Detailed Task Report	2-11
Analyzing the Detailed Task Report	2-13
Sample Detailed Task Report Analysis	2-13
System Error Messages	2-15
Reading the System Error Messages	2-16
Device Histories	2-17
Introduction	2-17
Device History Reports	2-17
Examples of Device History Reports	2-18
Device History Menu Options	2-19
History of Entire Office	2-20
History of All Devices on a Pipe/Sector	2-20
History of All Devices at a Location Code	2-20
History of All Devices at a Utility Hole/Address	2-20
History of All Devices on a Cable/Sheath	2-20
History of All Devices by Type	2-21
History of All Devices Disabled	2-21
History of All Devices by Current Reading	2-21
Non-Variance ("Stuck" TD's)	2-22
History of All Devices By Sort Key	2-22
List History of Another Office	2-22
Screen Browser Function Keys	2-23
Extended Device History Information	2-23
Using the Device History Wildcard Character	2-24
Wildcard Example with History of Devices on a Pipe/Sector	2-25
Wildcard Example with History of Devices at a Manhole/Address	2-25
Analyzing the Device History Reports	2-26
Displayed Irregularities	2-26
Specific Device Information	2-27

Introduction	2-27
Specific Device Reports	2-27
Realtime Device Readings	2-29
Editing Comments Screen	2-29
Editing Cable Readings Screen	2-30
Editing the Sheath(s) Data Field	2-31
Analyzing Specific Device Reports	2-31
Displayed Irregularities	2-31
System Indexing	2-32
Introduction	2-32
The System Index	2-32
Office Index	2-34
Calculating the Index	2-34
CPAMS Information	2-36
Introduction	2-36
CPAMS Information Menu	2-36
CPAMS Configuration Report	2-37
Device Log Report	2-38
Extended Device Log Data	2-39
Device Log By Location Report	2-41
Device Log By Location Report Fields	2-43
Device Status Report	2-43
Device Status by Pipe Report	2-45
Device Discrepancy Report	2-48
Chatlos/Hercules Reports	2-48
Sparton Reports	2-49
Backup CPAMS	2-50
Automatic Backups	2-50
Manual Backups	2-51
Restore CPAMS	2-52
Backing Up and Restoring Chatlos/Hercules Monitoring Systems	2-53
Backing Up and Restoring Sparton Monitoring Systems	2-53
Program CPAMS — Specific Devices	2-55
Initiating Auto Programming Function	2-55
Program CPAMS — All Devices	2-57
List CPAMS Info For Another Office	2-58
User Support	2-59
USAM Information	2-59
Viewing USAM Configuration Information	2-59
Loading the USAM	2-62
Quit	2-62
Exiting the System	2-63

ALARMMAP

Introduction	3-1
Alarm Dispatching	3-2
Distribution Method	3-2
Detailed Task Information	3-5
Specific Device Information	3-5
Associated Task Information	3-5
Projected Leak Location	3-6

OPERATIONS

Receiving Alarms on Alphanumeric Pagers	3-7
Receiving Alarms via Email	3-8
Brief Report	3-8
Condensed Report	3-8
Dispatch Alarms Clearing Notification	3-9
Dispatch Alarms vs. Dispatch Priorities	3-9
Task Numbers and Dispatch Dates	3-10
High Priority (\$) Device Types	3-10
Receiving Alarms from CPAMS Monitors	3-11
Programming CPAMS Monitors for AlarmMAP	3-12
Dispatch Histories	3-12
Finding the Dispatch Histories Menu	3-13
Set the Beginning and Ending Dates	3-14
Set the Daily Viewing Period	3-14
Reset to the Default Values	3-15
View Dispatch Histories	3-15
Completing the View Dispatch Histories Record	3-17
Select Another Office	3-18
Quit Dispatch Histories	3-19
Alarm vs Time of Day Report	3-19
Finding the Alarm vs Time of Day Report Menu	3-19
Set Viewing Dates and Times	3-20
Reset Dates and Viewing Period to Default	3-22
View Alarm vs Time of Day Report	3-21
Select Another Office	3-22
Quit Alarm vs Time of Day Report	3-23
Daily Alarm Summary Report	3-23
Finding the Daily Alarm Summary Report Menu	3-23
Set Viewing Dates and Times	3-24
Reset Dates and Viewing Period to Default	3-25
View Daily Alarm Summary Report	3-26
Select Another Office	3-26
Quit Daily Alarm Summary Report	3-27
Alarm Summary Report	3-27
Finding the Alarm Summary Report Menu	3-28
Set Viewing Dates and Times	3-29
Reset Dates and Viewing Period to Default	3-30
View Alarm Summary Report	3-30
Select Another Office	3-31
Quit Alarm Summary Report	3-31
Alarm vs Device Type Report	3-31
Finding the Alarm vs Device Type Report Menu	3-32
Set Viewing Dates and Times	3-33
Reset Dates and Viewing Period to Default	3-34
View Alarm vs Device Type Report	3-34
Select Another Office	3-37
Quit Alarm vs Device Type Report	3-37
Distribute Alarm Dispatches to Centers	3-37
Acknowledge Dispatch Alarms	3-39
Finding the Acknowledge Dispatch Alarms Menu	3-39
Viewing an Alarm	3-41

Acknowledging and Viewing Alarms	3-41
Send Test Alarm to Center	3-42
Finding the Send Test Alarm to Center Menu	3-43
Quit AlarmMAP Master Menu	3-44

REPORTMAP

Introduction	4-1
Dispatcher	4-1
General Information	4-1
The Dispatch Report	4-2
The Device Status Report	4-4
Sending Unscheduled Dispatch Reports	4-5
Pin Selector	4-7
General Information	4-7
Pin Selector for the 289 LSS	4-7
Accessing Pin Selector Functions	4-8
Printing Access Number Logs	4-10
Analyzing Access Number Logs	4-11
Dedicating an Access Number	4-12
Releasing an Access Number	4-14
LSS Configuration	4-15
View Another Office	4-16
Pin Selector for the E2A Remote Terminal	4-16
Accessing Pin Selector Functions	4-17
Printing Access Number Logs	4-18
Analyzing Access Number Logs	4-19
Dedicating an Access Number	4-21
Releasing an Access Number	4-23
View Another Office	4-24

CABLEMAP

Introduction	5-1
CableMAP Reports	5-1
CableMAP Master Menu	5-2
Summary Activity Logs Menu	5-3
All Activities on File	5-6
Activities by Opening Number	5-7
Activities by Date	5-7
Activities by a Technician	5-8
Activities for a Job/Task Number	5-8
Activities at a Manhole/Address	5-8
Activities at a PressureMAP Location	5-8
Activities on a Pipe	5-8
Activities for a Cable/Count	5-9
Activities Not Yet Closed	5-9
Recent Activities for all Technicians (TechFinder)	5-9
Complete Activity Logs Menu	5-10
All Activities on File	5-12
Activities by Opening Number	5-12
Activities by Date	5-13
Activities by a Technician	5-13

OPERATIONS

Activities for a Job/Task Number	5-13
Activities at a Manhole/Address	5-14
Activities at a PressureMAP Location	5-14
Activities on a Pipe	5-14
Activities for a Cable/Count	5-14
Activities Not Yet Closed	5-15
Recent Activities for all Technicians (TechFinder)	5-15
CableMAP Express Login	5-15
PressureMAP and AlarmMAP Reports Enhanced by CableMAP	5-16
CableMAP and the Detailed Task Report	5-17

HAND-HELD TERMINAL ACCESS

Introduction	6-1
Hand-Held Terminal Access Operations	6-1
Setting up a Hand-Held Terminal	6-3
Accessing the MAP System Computer	6-3
Examining Specific Device Information	6-4
Realtime Readings with a Hand-Held Terminal	6-7
Logging a Cable Opening with a Hand-Held Terminal	6-8
Logging a Cable Closing with a Hand-Held Terminal	6-11
Viewing a Cable Opening File with a Hand-Held Terminal	6-13
Editing a Cable Opening File with a Hand-Held Terminal	6-15
List Dispatch Task Numbers with a Hand-Held Terminal	6-16
Quitting the Hand-Held Access Program	6-17

USER INITIATED OPERATIONS

Introduction	7-1
Updating Office Information	7-1
Updating Device Readings	7-1
Regenerating Dispatch Priorities	7-2
Regenerating System Indexes	7-3
Viewing MAP Data Files	7-4
View MAP Data Files Menu	7-4
Viewing Alarm Error Files	7-6
Analyzing Alarm Error Files	7-8
Erasing Alarm Error Files	7-9
Examples of "Good" Alarms	7-10
289H Alerts	7-14
USAM Alarm Format	7-15
Viewing Mail Log Files	7-15
Returned Mail Message Log File	7-17
Unexpected Mail Message Log File	7-18
Mail Messages Not Sent Log File	7-19
Custom Reports	7-20
Custom Reports Menu	7-20
Standards Report	7-22
Additional Custom Reports	7-24
SQI Report	7-25
OAU Report	7-26
Alarm Report	7-28
Flat Cable Report	7-29

Standards -B Report	7-30
Standards Report (Rev. C)	7-32
Standards Report (Rev. D)	7-34
SBC Standards Report	7-36
BellSouth Standards Report	7-38
Quality Report	7-38

CPAMS DIAGNOSTICS

Introduction	8-1
289H LSS Diagnostics	8-1
289H Board Numbering Conventions	8-3
Procedures for the 289H LSS Diagnostics Tests	8-4
Access Number Translations	8-6
The 289H LSS Diagnostics Tests	8-7
System Configuration	8-8
Calibration Test	8-10
Realtime Reading Test	8-11
Specific Device Info	8-16
Capacitance Test	8-16
Ping Relays Test	8-17
Cold Reset	8-18
Leakage Test	8-19
AC Test	8-19
DC Test	8-20
Pair Diagnostics	8-21
289H Device Alert Options	8-22
Dialout Phone Number Information	8-22
Device Alert Information	8-24
289H LSS Dedicated Tone Capability	8-25
Get Tone Settings	8-25
Set Tone Default	8-26
Route Tone	8-27
289H LSS Addressable Capability	8-28
Erase AMC Flash	8-28
Pair Realtime Reading Test	8-29
The 289 LSS Diagnostics Tests	8-30
System Configuration	8-30
Calibration Test	8-32
Realtime Reading Test	8-33
Specific Device Info	8-34
Capacitance Test	8-35
Ping Relays Test	8-36
Cold Reset	8-37
E2A Diagnostics	8-37
Acceptance Mode versus Diagnostics Mode	8-38
The Acceptance Mode	8-38
The Diagnostics Mode	8-39
Procedures for the E2A Diagnostics Test	8-39
The Diagnostic Tests	8-42
The Single Device Test	8-42

OPERATIONS

Interpreting the Output	8-43
Status Relay Test	8-44
Interpreting the Output	8-45
Loop Resistance Relay Test	8-45
Interpreting the Output	8-45
Airflow Counter Test	8-47
Airflow Access Numbers	8-47
Interpreting the Output	8-47
The Airflow Counter Test in Acceptance Mode	8-48
Line Access Relay Panel (LARP) Test	8-49
Interpreting the Output	8-47
Satellite Relay Test	8-51
Interpreting the Output	8-51
Calibration and Interface Tests	8-52
LARP Calibration Test	8-53
Interpreting the Output	8-53
Loop Resistance Relay Calibration Test	8-54
Interpreting the Output	8-54
LARP Open Circuit Test	8-55
Interpreting the Output	8-55
LARP Relay Operate Error Test	8-55
Interpreting the Output	8-56
Parity Error Test	8-56
Interpreting the Output	8-56
Command Word Test	8-57
Interpreting the Output	8-58
PressureMAP Tables	8-58
Diagnostic Interface for Other CPAMS	8-62
Procedures for Diagnostic Interface	8-62
Using CPAMS Diagnostics to Access a Teleducer 50	8-64

GLOSSARY	9-1
-----------------------	-----

MAP ENGINE MAINTENANCE

Procedures to Back Up MAP System	10-2
Traditional Backup Menu Functions	10-4
Backing Up MAP System Files to Tape	10-5
BackupEDGE Backup Menu Functions	10-5
Backing Up MAP System Files to DVD	10-7
Backing Up to Remote Computer via FTP	10-8
Procedure to Shut Down the Computer	10-8
Procedure to Shut Down and Reboot the Computer	10-10

APPENDIX 1

CPAMS Reading Messages	A1-1
------------------------------	------

APPENDIX 2

Dispatch Condition Examples	A2-1
-----------------------------------	------

APPENDIX 3

System Error List-Introduction	A3-1
--------------------------------------	------

File I/O Errors-100 to 256	A3-1
Program Execution Errors-260 to 294	A3-10
Nicotra Error Messages-300 to 309	A3-12
Chatlos Error Messages-312 to 339	A3-13
MAP System Access Errors-340 to 342	A3-14
Hercules Error Messages-347 to 369	A3-14
TCP/IP Socket Error Messages-370 to 379	A3-16
File Error Messages-381 to 384	A3-16
Data Export Protocol Error Messages-391 to 397	A3-17
Sparton Error Messages-400 to 432	A3-17
Lancier 101 Monitor Error Messages-440 to 450	A3-19
Telsec Error Messages-451 to 457	A3-20
uM260 Micro Monitor Error Messages	A3-21
Dial-a-Ducer Error Messages-460 to 464	A3-21
Program Error Messages-470 to 499	A3-21
Lancier 1005 Monitor Error Messages-520 to 530	A3-23
Nicotra Error Messages-531 to 551	A3-23
SSI 289H LSS Error Messages-552 to 577	A3-24
File Error Messages-580 to 594	A3-28
USAM Error Messages	A3-28
E2A Error Messages-620 to 639	A3-29
General System Errors-645 to 967	A3-30
TMACS 1000 Error Messages-969 to 989	A3-43
General System Errors-990 to 991	A3-44

APPENDIX 4

Task Dispatching-Introduction	A4-1
Task Dispatch Procedure #1	A4-1
Task Dispatch Procedure #2	A4-3
Task Dispatch Procedure #3	A4-3
Task Dispatch Procedure #4	A4-4
Task Dispatch Procedure #5	A4-5
Task Dispatch Procedure #6	A4-5
Leak Locating Worksheets	A4-6

APPENDIX 5

Report Fields-Introduction	A5-1
Report Field Definitions	A5-1
Detailed Task Report	A5-13
Device History Report	A5-14
Specific Device Reports	A5-14

APPENDIX 6 (Not Available in all Areas)

Positive Air Flow-Introduction	A6-1
How Positive Air Flow Works With PressureMAP	A6-1
New Device Types	A6-2
Return Manifold Flow Transducer	A6-2
Return Pipe Flow Transducer	A6-3
Return Pipe Pressure Transducer	A6-3
Realtime Device Readings	A6-3

OPERATIONS
