

# Index

289H auto-calibration.....	4-19, 5-1
289H cold reset.....	A5-14
289H equipment specifications.....	A1-6
289H-M specifications .....	A1-7, A1-8
uM260 specifications.....	A1-9
289H LAN controller card .....	1-4, 1-8, 1-9, 5-1
(figure) .....	1-9, 5-11
Configuration setup .....	5-10
Dipswitch setting .....	5-11
Using HyperTerminal .....	5-12
Troubleshooting.....	5-15
289H LSS error messages .....	A2-10
289H LSS conversion utility .....	4-1—4-4
289H micro controller .....	1-7
289H modem .....	1-7
Indicator Lights (figure) .....	A2-3
289H modem controller card .....	1-8
(figure) .....	1-8
289H monitor in equipment rack (figure) .....	1-6
289H ordering options / card compatibility .....	A1-10
289H-M ordering options / card compatibility .....	A1-11
289H power supply.....	1-9, 3-4
289H utility card power switch (figure).....	3-3, 5-4
 Access numbers.....	4-1, 4-2, A5-5
AC voltage test.....	A2-9, A5-15
Alerting Cycles .....	6-10, A4-1
Hardware procedures.....	6-11
Software procedures .....	6-11
Alert Modem Status Codes.....	A4-2
Auxiliary cabling.....	1-16, 4-8, 4-10, 5-5
(figure) .....	4-9, 5-6
Backplane .....	1-5
(figure) .....	1-7
Binary contactors.....	6-9
Board numbering conventions .....	A5-3
 Cable applications .....	1-16, 1-19, 5-7
Cable connectors.....	1-15, 1-16, 4-8, 4-16, 4-18
Auxiliary .....	1-16
Connectors "A" and "B" (dedicated) .....	1-15, 4-17
Connectors "A" and "B" (subscriber).....	1-16, 4-7
Dedicated Connectors (figure).....	1-15

Special 289H to Sparton dedicated block.....	4-13, 4-14
Subscriber Connectors (figure).....	1-14, 5-6
Cable installation.....	1-16, 4-7, 4-17
Cable lengths .....	1-17, 2-2, A1-20, A1-21
Cabling requirements .....	2-2
Calibration test .....	A5-8
Applications .....	A2-6
Capacitance test .....	A5-12
Applications .....	A2-8
Card ejector tabs .....	3-2, 5-9
Card slot identification .....	3-2
Card placement (figure).....	3-2
Card testing procedures .....	5-2
Central office dedicated installation (figure) .....	1-3
Central office subscriber installation (figure).....	1-3
Central office battery .....	2-3, 3-4
Chatlos post-conversion worksheet.....	4-4
Cold reset.....	A2-9, A5-14
Connecting dedicated pairs to subscriber block .....	4-11
Connector blocks	
Cable assemblies.....	1-16
External wiring (dedicated) .....	1-13, 1-14, 4-15, 4-16
External wiring (subscriber).....	1-15, 1-16, 4-5, 4-11
Installation .....	3-7, 4-5, 4-15
Internal wiring (dedicated) .....	1-14, 4-17
Internal wiring (subscriber) .....	1-15, 4-7, 4-8
Jumper (Aux) connectors .....	1-16, 4-8
Labeling.....	4-5, 4-15
Mounting positions.....	3-7
(figure) .....	3-7
Pin termination points.....	1-14, 1-15
Contactors .....	6-7
Wiring (figure).....	6-7—6-9
Readings for status contactors (figure) .....	6-8
Binary contactor wiring (figure).....	6-9
Readings for binary contactors (figure) .....	6-10
Controller card (see also LAN Controller Card) .....	1-7
(figure) .....	1-8, 1-9
Designated chassis slot.....	3-2, 5-5
Firmware EPROM.....	1-8
LED verification .....	A2-1
Modem LED checks.....	A2-3
Conversion utility .....	4-2
Cutover worksheet - descriptio	
Sparton .....	4-3
Chatlos .....	4-4
Cutover procedures.....	6-1—6-3

Data conversion (contracted).....	2-3
DC voltage test .....	A2-9, A2-10, A5-16
Dedicated block cabling configuration .....	4-17, 4-18
(figure) .....	1-15, 4-17
Dedicated block pins arrangements.....	4-15
(figure) .....	1-14, 4-15
Dedicated block wiring .....	4-15, 4-18
Dedicated relay card.....	1-12
(figure) .....	1-12
Device alert information .....	A5-19
Device numbers.....	4-3, 4-4
Device Type table (PMAP) .....	6-4
Diagnostic Tests and Reports .....	A5-3
Diagnostic testing, applications.....	A2-5
Dialout phone number information .....	A4-1, A5-17
Dipswitch set module	
Controller card.....	1-8, 5-1
LAN controller card.....	1-8, 5-10, 5-11, 5-16
(figure) .....	5-11, 5-14
SPDR relay card.....	1-11, 4-14
(figure) .....	1-12, 4-12, 4-13
EPROM requirements.....	1-8, 1-10, 3-6, 5-4
Equipment bay location .....	2-1
Equipment designation .....	4-5
Equipment ordering options .....	A1-1
Components & connector blocks .....	A1-12
Connector cables .....	A1-20
Miscellaneous accessories.....	A1-23
Office monitors.....	A1-2
Equipment pre-ordering tasks.....	2-1
Equipment rack .....	1-5, 1-6
Facility designation.....	1-15, 4-5—4-7
Fuse replacement .....	5-7
289H fuse chart.....	5-8
Grounding requirement .....	3-5
Incorrect device readings .....	5-3, A2-4, A2-8, A2-9
Ping relays test.....	5-3
Installing dedicated pairs to subscriber block .....	4-11
Installation planning .....	2-2
Planning form .....	2-5
Installation requirements .....	2-2, 2-3
Installation tools .....	3-1, 3-2
Jumper cables.....	1-17, 4-7, 4-8, 4-11, 4-17, 5-5

LAN controller card.....	1-4, 1-8, 1-9, 5-1, 5-11—5-17
(illustration) .....	1-9, 5-11
Configuring .....	5-10—5-17
Designated chassis slot.....	3-2, 5-5
Programming requirements .....	2-2, 2-3
Leakage test .....	A5-14
Locking barb (connector block) .....	4-8, 4-18
Main chassis description .....	1-5—1-13
Mapping devices from frames to 289H chassis — dedicated cards.....	4-17
Mapping devices from frames to 289H chassis — subscriber cards .....	4-7
Mechanized line testing (MLT) .....	1-4
Modem indicator lights .....	A2-3
Modem speed.....	1-4, A5-1
Monitoring capabilities.....	1-3—1-5
Monitoring capacity (dedicated).....	1-5, 1-11, A1-1
Monitoring capacity (subscriber) .....	1-5, 1-11, A1-1
Network communication.....	1-1, 1-4, 1-7, 2-2, 5-1, 5-10—5-17, A5-1
Network configuration worksheet .....	5-17
No device readings .....	A2-4, A3-1, A3-2
Open circuit detection.....	1-4, A2-8, A5-12
Ordering Options	
289H LSS .....	A1-2, A1-10
289H-M LSS.....	A1-3, A1-4, A1-11
uM260.....	A1-5
Pair realtime reading test.....	A5-9, A5-20
Phone line requirement .....	2-2, 5-1
Ping relays test .....	A5-13
Applications .....	5-3, A2-8
Post-conversion worksheets .....	4-2
Power leads	
Identification.....	3-4, 3-5
Installation .....	3-4
Power requirement	
Conductors .....	2-3
Fuses .....	2-3
Voltage.....	2-3
Power switch .....	1-9, 1-10, 3-3, 5-2, 5-4, 5-8
Power switch location (figure) .....	3-3, 5-4
Pre-installation requirements .....	3-2, 5-1
Connector blocks .....	3-7
Relay cards.....	3-6, 5-4
PressureMAP calling cycle .....	1-3
PressureMAP Device Log.....	4-4, 4-18
PressureMAP Device Type table .....	6-4

PressureMAP Transducer Type tables.....	6-5, 6-6
Pre-wired cable connectors - dedicated block.....	1-14
Pre-wired cable connectors - subscriber block .....	1-15
Reading conversion charts .....	A5-24—A5-26
Reading messages .....	A3-1, A3-2
Realtime reading test .....	A2-7
Realtime leakage test .....	A2-9, A5-14
Relay card .....	1-5, 1-11
(figure) .....	1-12, 1-13
Reserving equipment bays .....	2-1
Scan cycle timing .....	6-10, 6-11
Sparton dedicated block wiring.....	4-15
Sparton Dedicated Replacement card (SPDR).....	1-12, 3-8, 4-14, 5-2
(figure) .....	1-12
Configuration .....	4-13, A5-8
(figure) .....	4-12, 4-13
Indicator lights (figure) .....	1-12, 4-13
Order in chassis.....	A2-4
Sparton post-conversion worksheet .....	4-3
Specific device information test .....	A2-8
Standard connector blocks.....	1-13
Subscriber block cabling configuration .....	1-15
(figure) .....	1-16, 5-6
Subscriber block pin arrangements.....	4-5, 4-6
(figure) .....	1-16, 4-5
Subscriber block wire wrap pins — numbering .....	4-5
Subscriber block wire wrap pins — wiring .....	4-5, 4-6
(figure) .....	1-15, 4-7, 4-9
Subscriber relay card .....	1-13
(figure) .....	1-13
System calibration .....	4-19, 5-1
System check procedures.....	5-1
System components .....	3-1
System configuration test .....	A2-5, A2-6
System error messages.....	A2-10
Tone generation capability.....	1-4, A5-20
Get Tone Settings .....	A5-21
Set Tone Default .....	A5-21
Route Tone .....	A5-22
Tone signal default reset .....	A2-9, A5-21
Tone Utility card (see also Utility card) .....	1-11
(figure) .....	1-11
Transducer conversion charts .....	A5-24—A5-26
Transducer installations .....	1-2—1-3
Dedicated installation .....	1-3
Subscriber installation .....	1-3

Transducer type tables (PressureMAP) .....	6-5, 6-6
User defined devices .....	4-3, 4-4
Utility card .....	1-5, 1-9, 3-1, 3-2, 5-4, 5-7, A2-1
(figure) .....	1-10, 1-11, A2-2
Card wiring schematic (figure) .....	3-4
Designated chassis slots .....	3-2, 3-3, 5-9
Power cable connector (figure) .....	3-5
Power switches (figure) .....	3-3, 5-4
Wire wrap pins .....	4-6, 4-7, 4-10, 4-11, 4-15, 4-17, 4-18
Wiring CO “equipment” circuits .....	4-7, 4-8, 4-10
Wiring field “facility” circuits.....	4-7, 4-8, 4-10