NexWatch

Alto 818SC / Alto 818SX

ADVANCED ACCESS CONTROL SYSTEMS WITH VIRTUALLY UNLIMITED FLEXIBILITY

KEY FEATURES

- Fully integrated access control and alarm monitoring system
- Reads multiple card types
- Supports multiple reader technologies:
  - Analog proximity sensors
  - Keypads
  - Digital proximity readers (818SC only)
- Up to 20 inch card-reading range (818SC only)
- 11,200 card capacity when connected to NexWatch host
- 120 access codes when connected to NexWatch host
- 4,000 transaction buffer provides protection against communication loss
- System flexibility
- UL294 Listed (818SX only)
- Tested, ready-to-run system
- 15-month hardware warranty

Basic Features

Access Control:
- Host compatibility
- Extended protocol
- Clock (time/date/year)
- Group key programming
- Increased transient protection on relay outputs
- Route trace of specific keys
- Program, clock, building, mode and data maintained if power fails
- User-defined lock/unlock schedule
- Hard/soft anti-passback with "forgiveness"
- Adjustable unlock/shunt/relock time
- Manual lock/unlock from host
- Normal and reverse lock operation
- Open/forced door detection
- Interface for printer
- Interface to RS232C and 20mA
- Optional event storage, recall and centralized database with SE5850, NSM*, NSCC, and StarGaze™ host computer
- Keypad capability
- Supports analog proximity sensors
- SE2814 and SE2815A sensors
- Non-incendive and intrinsically safe sensors
- Recognizes analog proximity cards (1050/1060 keys)

The Alto 818 is an advanced access control unit that can easily manage the security of both small and large applications. Combined with a host system from NexWatch, the Alto 818 provides virtually unlimited access control flexibility.

Maximum control

A complete proximity access control and alarm monitoring system, the Alto 818 controls up to 8 entrances, monitors up to 32 input points, allows up to 11,200 individually numbered command keys, facilitates up to 120 unique access codes, and stores up to 4,000 event logs.

The Access Control Unit (ACU) monitors and controls up to eight Multiple Switch Monitors (SE774A), each monitoring four input points. Power supply options include a power module developed exclusively for the Alto 818 (SE3018), or one with battery backup capability that provides continuing operation if power fails (SE3718S). An eight-point annunciator device (SE778A) is also available for additional relay output or building mode control. Adding to their system flexibility, Alto 818 controllers support multiple access control and reader technologies. The Alto 818SX supports analog proximity sensors and keypads, plus compact, medium-range, standard, non-incendive and intrinsically safe sensors. The 818SC, in addition to the features of the 818SX also adds support for DigiReader™ and smart card readers. Though the 818SC does not support medium-range analog sensors, its ability to support digital technologies gives the 818SC a read range from four to 20 inches* when used with the NexWatch DigiReader family of digital readers.

Fully networkable

The Alto 818 is fully functional as a stand-alone system, or it can be linked with multiple units from a central location using either an SE5850, NexSentry Manager*, NexSentry Command Center, or NexSentry StarGaze™ host. The SE5850 can accommodate up to 32 directly connected units; both the NSM*, NSCC and StarGaze™ can manage thousands of ACUs for even the largest

* NexSentry Manager host system works only with the 818SC controller

Benefits

- 11,200 key capability with NexWatch host allows for larger system applications

- Compact sensor is attractive, fits any decor

- Virtually unlimited flexibility with 120 access codes per ACU when used with a NexWatch host

- Flexible design allows easy system expansion — additional units can be added as the installation grows

- Improves communication speed and efficiency through enhanced communications protocol

- Expanded buffer for 4,000 transactions provides protection against data loss due to communication failure

Basic Features

818SX-specific features

In addition to the above, the 818SX:

- Is UL-294 Listed

818SC-specific features

In addition to the above, the 818SC

- Recognizes QuadraKey™ and other digital command keys

- Supports the complete line of 4200 Series DigiReaders for maximum read ranges from four to 20 inches, as follows:*

  DR4201 Up to 1.5 inches

- DR4203 Up to 4 inches

- DR4205 Up to 5 inches

- DR4208 Up to 8 inches

- DR4220 Up to 20 inches

- DS2805 AD Up to 4 inches (Analog and Digital Credentials)

Alarm monitoring

- Contact names (24 characters)

- Contact assignable to any function

- Provision for remote mode switches

- Contact designation as alarm/non-alarm event
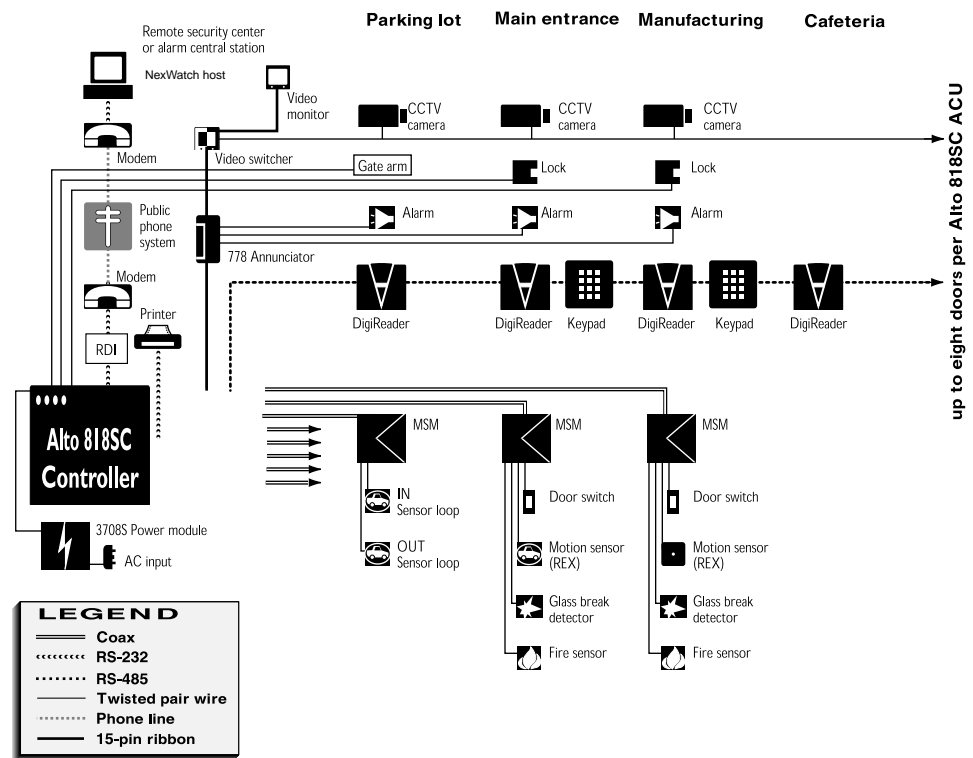
- Latched master alarm contact (SE778A)

Hardware features

- Front panel access — internal board easily accessible

- Transmit/receive indicator lights

- Detachable Phoenix connectors for easy field installation

- Internal "Goof" switch

- Disable battery option for longer shelf life

- Internal reset button

- Coax cable for readers and SE Alto 818SC/818SX

818SC-specific features

- Optional power inserter for powering digital readers and/or smart card readers

Alto 818SC System sample configuration

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<tr><td colspan="2">Access Control</td></tr>
<tr><td>• Access control locations</td><td>8</td></tr>
<tr><td>• Cardholders (Command Keys) without names</td><td>11,200</td></tr>
<tr><td>• Cardholders with names</td><td>4,400</td></tr>
<tr><td>• Access codes</td><td>120</td></tr>
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Specifications

Alto 818SX ACU

Access Control Unit and alarm monitoring system with highly flexible feature set and powerful performance. Supports multiple access control technologies and analog sensors.

- Dimensions: 18 x 10.5 x 2.25 in. / 45.72 x 26.67 x 6 cm
- Weight: 25 lb. / 11.25 kg
- Environmental: 20° to 120° F / -7° to 49° C
- Humidity: 10% to 95%, non-condensing

Alto 818SC ACU

Adds support for digital readers.

- Dimensions: Same as Alto 818SX
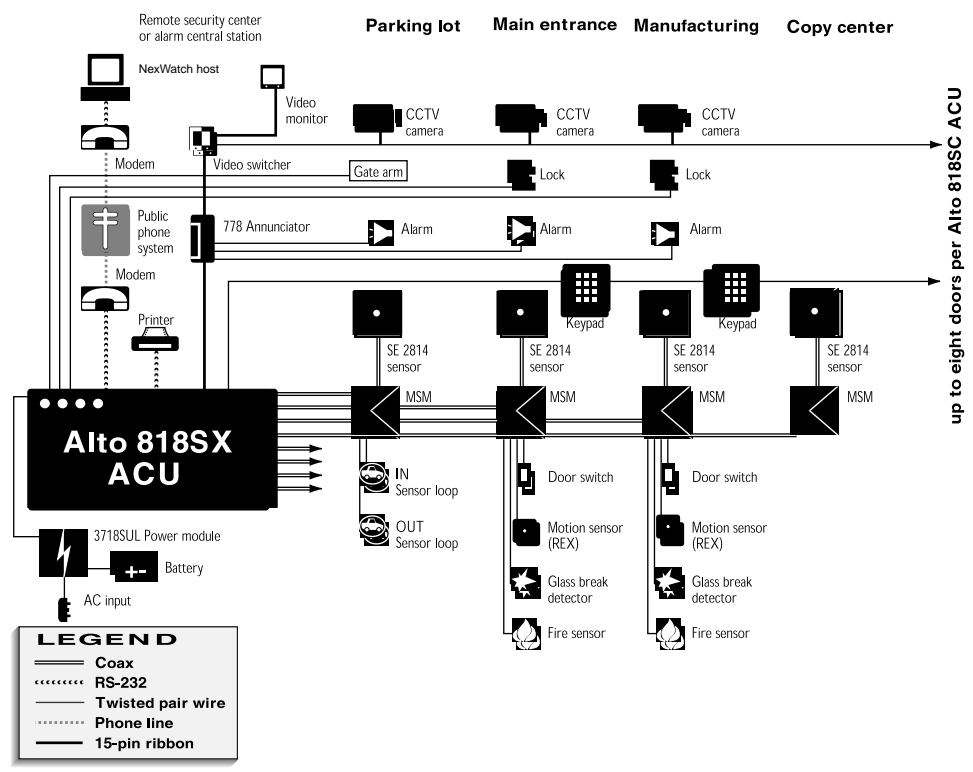
3718S Uninterruptible Power Module

115/230V Input, 16V & 25V Output; 12 VDC or 24 VDC Lock Power. Uses 12V sealed lead acid battery.

- Dimensions: 18 x 7.2 x 5.2 in. / 45.7 x 18.3 x 13.2 cm
- Weight: 16 lb. / 7.2 kg
- Environmental: 20° to 120° F / -7° C to 49° C
- Humidity: 10% to 95%, non-condensing

Benefits

- Multiple reader technologies provide greater user flexibility
- Additional system versatility is available with the use of keypad-only feature
- Keypad capability provides greater security when used in conjunction with card readers
- Increases value and marketability of any building or property
- Digital reader capabilities provide read range of up to 20 inches when used with our QuadraKey™ digital command key (818SC only)

Alto 818SX System sample configuration

LEGEND
- Coax
- RS-232
- Twisted pair wire
- Phone line
- 15-pin ribbon

SE778A Remote Annunciator Control Module

Provides 8 dry contact outputs plus status and latched alarm outputs.

Max: one (1) per ACU.

- Dimensions: 3 x 11.4 x 1.5 in. / 7.6 x 28.9 x 3.8 cm
- Weight: 0.88 lb. / 0.4 kg
- Environmental: 20° to 120° F / -7° to 49° C
- Humidity: 10% to 95%, non-condensing

SE774A Multiple Switch Contact Monitor

Provides four dry contact input points. Supports higher voltages required for longer card read ranges. Compatible with NexWatch Sensors. Max: 8

- Dimensions: 4.5 x 4.5 x 2.3 in. / 11.4 x 11.4 x 5.8 cm
- Weight: 1.0 lb. / 0.45 kg
- Environmental: 20° to 120° F / -7° to 49° C
- Humidity: 10% to 95%, non-condensing

SE2814A/2815A Card Reading Sensors

Lexan-encased vandal-proof and weather-proof. Mount on surface, behind glass or concealed in wall.

SE1050 or SE1060 Command Key

Highly durable analog command key for use with Proximity 2814A/2815A sensors. See SE1050 / SE1060 Command Key data sheet.

ORDER INFORMATION

Model	Order #	Description
818SX	92818001000	Alto 818SX 8-door system controller - supports analog and keypad
818SC	92818021000	Alto 818SC 8-door system controller - supports analog, digital readers and keypad

Alto 818S System Features Summary

ACCESS CONTROL

- Access control locations: 8
- Cardholders(Command Keys) without names: 5,200
- Cardholders with names: 2,000
- Access codes: 15
- Time intervals: 64
- Transaction buffer: 300

ALARM MONITORING

- Monitored contacts (774A):   32
- Output zone contacts (778A):   8
- Output contact (lock relays):   8
- Operating modes:Open/Limited/Closed

*Maximum read ranges may vary depending on physical environment of installation and type of Command Key used.

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