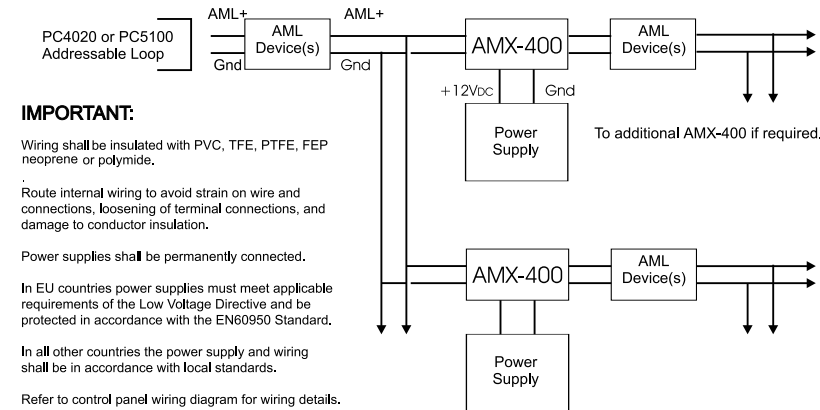


Table 2: AMX-400 Wire Run Chart

From PC4020/PC5100					AMX-400 Output				
Total Loop	18 AWG/1.02mm		22 AWG/0.635mm		Total Loop	18 AWG/1.02mm		22 AWG/0.635mm	
Current (mA)	Feet	Meters	Feet	Meters	Current (mA)	Feet	Meters	Feet	Meters
30	3000	913	750	228	35	3000	913	750	228
35	2500	761	625	190	45	2500	761	625	190
40	2000	609	500	152	50	2000	609	500	152
50	1500	457	375	114	70	1500	457	375	114
70	1000	305	250	76	80	1000	305	250	76
140	500	152	125	38	145	500	152	125	38

NOTE: 18 AWG recommended. Wire run calculations include line loss and battery end-of-life operation.

Figure 1: AMX-400 Wiring Configuration



IMPORTANT:

- Wiring shall be insulated with PVC, TFE, PTFE, FEP neoprene or polyimide.
- Route internal wiring to avoid strain on wire and connections, loosening of terminal connections, and damage to conductor insulation.
- Power supplies shall be permanently connected.
- In EU countries power supplies must meet applicable requirements of the Low Voltage Directive and be protected in accordance with the EN60950 Standard.
- In all other countries the power supply and wiring shall be in accordance with local standards.
- Refer to control panel wiring diagram for wiring details.

NOTE: Do not wire more than four AMX-400 modules in series from the source loop in series/parallel configurations

NOTE: Do not wire more than four AMX-400 modules in series from the source loop in series/parallel configurations.

Limited Warranty

Digital Security Controls Ltd. warrants that for a period of 12 months from the date of purchase, the product shall be free of defects in materials and workmanship under normal use and that in fulfillment of any breach of such warranty, Digital Security Controls Ltd. shall, at its option, repair or replace the defective equipment upon return of the equipment to its repair depot. This warranty applies only to defects in parts and workmanship and not to damage incurred in shipping or handling, or damage due to causes beyond the control of Digital Security Controls Ltd. such as lightning, excessive voltage, mechanical shock, water damage, or damage arising out of abuse, alteration or improper application of the equipment.

The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of any and all other warranties, whether expressed or implied and of all other obligations or liabilities on the part of Digital Security Controls Ltd. Digital Security Controls Ltd. neither assumes responsibility for, nor authorizes any other person purporting to act on its behalf to modify or to change this warranty, nor to assume for it any other warranty or liability concerning this product.

In no event shall DSC Ltd. be liable for any direct, indirect or consequential damages, loss of anticipated profits, loss of time or any other losses incurred by the buyer in connection with the purchase, installation or operation or failure of this product.

WARNING: Digital Security Controls Ltd. recommends that the entire system be completely tested on a regular basis. However, despite frequent testing, and due to, but not limited to, criminal tampering or electrical disruption, it is possible for this product to fail to perform as expected.

IMPORTANT INFORMATION: Changes or modifications not expressly approved by Digital Security Controls Ltd. could void the user's authority to operate this equipment.

AMX-400

Addressable Loop Regenerator

Installation Instructions

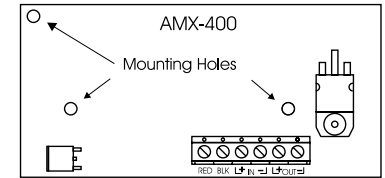
The AMX-400 Addressable Loop Regenerator can be connected to a PC4020 or PC5100 module to extend the allowable wiring distance on the addressable loop. The unit isolates addressable devices, limiting the effect of short circuits. The AMX-400 can be powered from the auxiliary power of the control panel or from an independent power supply. A maximum of four AMX-400 modules can be wired in series.

SPECIFICATIONS

- Operating Current...40mA (plus current draw of addressable devices)
- Supply Voltage...12Vdc (min)

COMPATIBLE CONTROL PANELS

- PC4020 v3.0 and higher
- PC5010 v2.0 and higher (requires PC5100)
- PC5020 v3.1 and higher (requires PC5100)



INSTALLATION

Refer to Figure 1 for wiring details and Table 2 for the wire run chart.

- Select a location for the AMX-400 module. Remove power from system.
- Locate 3 mounting holes in cabinet that align with module mounting holes. Insert stand-offs in cabinet mounting holes and snap standoffs into place. Align module mounting holes with standoffs and snap module into place.
- Connect the +12Vdc from the power supply to the RED(+) terminal on the AMX-400. Connect the ground wire from the power supply to the BLK(-) terminal on the AMX-400.
- Connect the incoming addressable loop to the + IN and - IN terminals of the AMX-400, observing the correct polarity.
- Connect the outgoing addressable loop to the +OUT and - OUT terminals of the AMX-400, observing the correct polarity.
- Power up system and perform system test.

Table 1: Current Calculation Chart

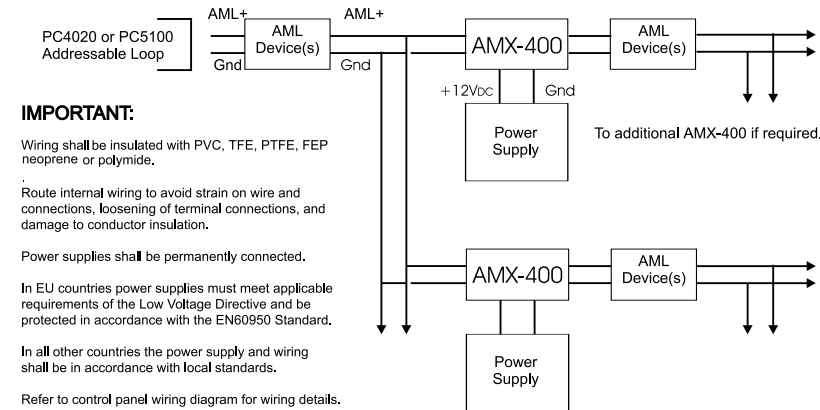
Model#	Description	Quantity	Max. Device Current Draw (in standby mode)	Total Current
AMS-220	Smoke Detector	X	0.8mA =	
AMB-300	PIR Motion Detector	X	0.75mA =	
AMB-500	Ceiling-Mount PIR	X	0.75mA =	
AMB-600	Dual PIR Detector	X	3.5mA =	
AMA-100	Glassbreak Detector	X	3.5mA =	
AMP-700	Magnetic Door/Window Contact	X	0.8mA =	
AMP-701	Contact Input Module	X	0.8mA =	
AMP-702	Fire Point Module	X	1.1mA =	
Total Current Draw (Maximum 170mA) =				

Table 2: AMX-400 Wire Run Chart

From PC4020/PC5100					AMX-400 Output				
Total Loop	18 AWG/1.02mm		22 AWG/0.635mm		Total Loop	18 AWG/1.02mm		22 AWG/0.635mm	
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NOTE: 18 AWG recommended. Wire run calculations include line loss and battery end-of-life operation.

Figure 1: AMX-400 Wiring Configuration



IMPORTANT:

- Wiring shall be insulated with PVC, TFE, PTFE, FEP neoprene or polyimide.
- Route internal wiring to avoid strain on wire and connections, loosening of terminal connections, and damage to conductor insulation.
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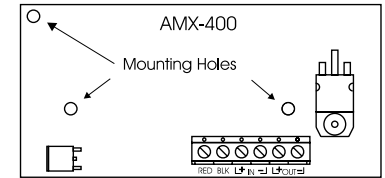
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