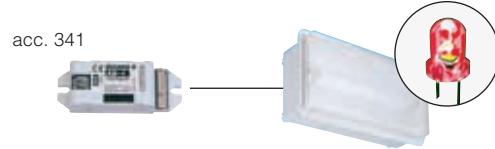


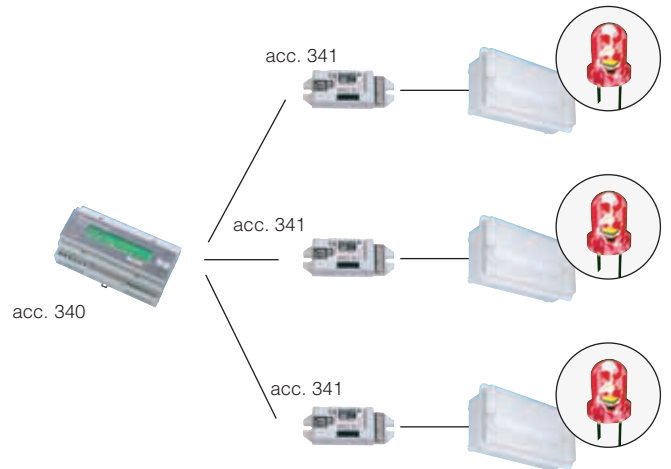
The Disano Auto Self Test module aids on site compliance with the regular testing requirements of BS5266 Pt. 1 1999.

Daily:	Luminaires; visually check that all maintained lamps are operating correctly. This could be done with local training and inspection, so that in each area people are instructed to check their local maintained luminaires and to report any defect for attention. Central power supplies; check that indicators are healthy.	Visual test. No request to the AD-1 Auto Self Test module.
Monthly:	Luminaires; check all luminaires are clean, in good condition and the fluorescent lamps are bright (not blackened or flickering). Simulate a mains failure for a time sufficient only to verify emergency operation; A) for self-contained luminaires with hold-off devices, use the local test facility. B) for central power supplies use the control switch to test the emergency lighting system, ensuring it is safe and convenient to do so. Note: for safety reasons the simulated mains failure should not discharge the battery by more than 1/4 of its capacity.	Local AD-1: every seven days the Auto Self Test module follows a functionality test, a feeding network interruption and a consequent lamp ignition through the battery that lasts 15 seconds. Because of this reason, the monthly request is done four times. AD 1 + acc.340 Centralised Main: In this kind of configuration it is possible to set up the hour and the day of the beginning of the test directly from the main control unit. The ignition time (15 seconds) remains unvaried. The monthly request is satisfied in relation to the inserted data of the Main Control System.
Six monthly:	Testing as monthly but for 1/3 of the rated duration, when it is convenient and safe to do.	Local AD-1: every 12 weeks the Auto Self Test module follows an autonomy test for all the battery capacity. The half-yearly request is satisfied two times. AD-1 + Centralised Main acc.340: in this kind of configuration it is possible to set up the hour and the day of the beginning of the autonomy test. The monthly request is satisfied in relation to the inserted data of the Main Control System.
Annually:	Testing as monthly but for the full duration, when it is convenient and safe to do so. Batteries will take up to 24h to re-charge so the test should take place when the building is not occupied.	Local AD-1: every 12 weeks the Auto Self Test module follows an autonomy test for all the battery capacity. The yearly request is satisfied four times. AD-1 + acc.340 Centralised Main: in this kind of configuration it's possible to set up the hour and the day of the beginning of the autonomy test. The monthly request is satisfied in relation to the inserted data of the Main Control System.
All tests:	Record the test date and results in the emergency lighting log book. Any faults should be repaired and the date of completion recorded.	Local AD-1: the signal of the fault can be recognized through the LED combination of colours located on the device AD-1 + acc.340 Centralised Main: the signal of the fault can be recognized through the LED combination of colours on the device and the result of the tests can be printed and kept as record.

1) in fact, a localised system can be obtained by connecting the **AD-1 module** to the emergency kits and the functionality-related information is assigned to the luminous three colour LED positioned on the lighting fitting.



2) the complete supervision of the entire system created is achieved by simply connecting all the AD-1 modules using a two-wire "DALI BUS" to a "Control unit". The reports on the operating status can be accessed thanks to a display on the "Control unit". The system can be interfaced with a printer to print out the functionality reports, or interfaced with a PC to manage the system from a normal workstation.

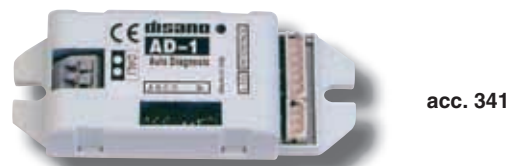


This **Auto Self Test** module is equipped with a sophisticated microprocessor device which enables it to automatically and independently make periodic diversified checks. The **AD-1 module** makes two types of check at diversified periodic intervals:

- 1) **functionality test:** a brief test is carried out automatically every 7 days to check the functionality of the fluorescent tube.
- 2) **run time test:** every 12 weeks it automatically checks the battery runtime

All signals are shown by a single three-colour G-Y-R LED indicating the various operating statuses of the kit. The table below shows the various kinds of signal/behaviour of the LED.

COLOUR	LED	OPERATING STATUS
yellow	flashing	Tests disabled , due to battery recharge *after initial installation (for 24h) *after a power failure lasting more than (+ 24h)
green	flashing	Test in course * single flash: light ignition test * double flash: battery run times test
green	steady light	Fixture operating normally
red	steady light	Battery run time test failed
red	flashing	Switch-on lamp test failed
	flashing in sequence	Battery not connected



Option with RMD



The ceiling fittings are switched on when the power supply is interrupted, energising acc. 344 causes the ceiling fittings to be switched off, avoiding the batteries from being discharged and enabling maintenance operations to be performed safely.

Use of the centralised control module complies with the need to control the lighting in emergency conditions in environments which are extensive and complex from a structural point of view.

The system comprises a main control unit to manage the "emergency lighting" system. The unit has been designed to supply power and manage up to a maximum of 200 units. On-line tests can be performed, as well as tests which can be programmed by the user:

1) testing the correct operation of each single lighting fitting for a few minutes (for example: once a week at 12.30);

2) full battery charge test with the complete discharge cycle to test the charge conditions of the batteries (for example: at 23.30 once a month).

The status reports can be accessed thanks to a liquid crystal display. The system can be interfaced with a printer to print out the functionality reports, or interfaced with a PC to manage the system from a normal workstation. The facilitated access system enables the operating data and any malfunctions of the lighting fittings to be displayed.



acc. 341 auto self-test	
white	986551
Device to be installed on each light source during manufacture. NOTE: use suffix -0066 to order fixtures complete with Auto Self Test devices.	



340 main (Control unit)	
white	986550

(AD-1) Auto Self Test:

Control unit to perform local tests. By connecting various AD-1 modules (max 200) to the control unit you can create a centralised system. Max. distance from the control unit: 300 m.

Control unit for the "emergency lighting" system. Designed to control up to 200 fixtures divided into 4 groups. Fitted with LEDs and relays to signal faulty operation. Suitable for mounting in modules directly into the DIN track 230-240Vac 50-60Hz 20W.

acc. 342 printer unit	
white	986552
Device to be installed locally to print reports on the status of the network.	



acc. 344 RMD	
white	986554
Device to be used on one or more fixtures fitted with the EM disablement system. NOTE: when ordering fixtures specify whether they should be fitted with RMD (use suffix -0070).	



Printer unit:

By using a simple duplex cable at any convenient point in the network, you can connect a PC to monitor system operation and if necessary supervise it in parallel to the "Control unit".

Rest-mode (RMD):

Permits you to control disablement in fixtures where this is possible and disable the emergency circuit for example during maintenance to the system.

acc. 343 computer unit	
white	986553
Device to be installed locally to control and monitor the system. It communicates via a serial port. Software not included. To order separately	



acc. 356 printer from panel	
	986555
Complete with frame. Printer report : Disano's logo, date of report, hour of report, number of installed fixtures, total number of fixtures of system, state of fixtures out of order.	



Computer Unit: the system allows to install up to 5 mains under the same PC/printer module with 200 units. By using a simple duplex cable at any convenient point in the network, you can connect a PC to monitor system operation and if necessary supervise it in parallel to the "Control unit".

Printer module

Printing from panel, ultracompact, width paper 58mm, with simple loading system.

Option with display on PC (+ printing results)



Option with printed results

