

Alarm Unit 756 and 756-2

Alarm Unit 756 and 756-2 is a part of the *Wideco Security System* which is a complete moisture monitoring system for insulated pipelines with alarm units from the simplest measuring box to units for advanced communication with a central computer via telephone network, GSM telephone, signal cables or Ethernet.

Wideco Security System is a complete moisture monitoring system for insulated pipelines. The Alarm Unit 756 and 756-2, which is part of the system, monitor moisture penetration in all parts of the insulation between the alarm wire and the media pipe, any break in the alarm wire or short circuiting between the alarm wire and supply pipe. The units can also be used for monitoring the External Alarm Cable and the Wideco Moisture Alarm Band Cu 25/3.

The Alarm Unit 756 is supplied complete with a mother card and an alarm card and the Alarm Unit 756-2 with a mother card and two alarm cards.

The units can be complemented with an extra alarm card (only the unit 756) and a D-subcontact card for the collection of data. A communication card makes it possible for several alarm units to be connected to a local computer via a twin-wire signal cable.

The moisture limits of the alarm unit can be varied between 1 – 500 kohms. Any changes in the alarm limit are made by simply changing the resistance in a connector on the alarm card. Each alarm card has its own alarm limit.

In the event of an alarm caused by a break in the alarm wire, a short circuit or deviation in the moisture limit a red and a yellow light are activated on the front panel of the unit and a signal sounds. The signal switch is on the front panel.

Via the NO/NC (normal open / normal closed) outputs an alarm can be transmitted further to a main unit or computer. The outputs are potential-free.

” Alarm unit 756 and 756-2 monitor moisture penetration in all parts of the insulation between the alarm wire and the media pipe...”



All alarm units can be complemented with an extra unit for easy transmission of predefined SMS messages to a local computer, main unit, GSM-telephone etc.

The alarm units are, as standard, powered by an 12 volt DC external transformer. The transformer is primarily driven by 230 volt 50 Hz from a wall-plug.

For more information on installation, running and maintenance see the respective catalogue leaflet.

The alarm units are coated with strong shock resistant polystyrene.

Coating class IP65. CE - marked.

Dimensions: W200 x H180 x D110 mm.

Weight: 700 g. Exc. Transformer.

Art.No: Alarm Unit 756: 9101756

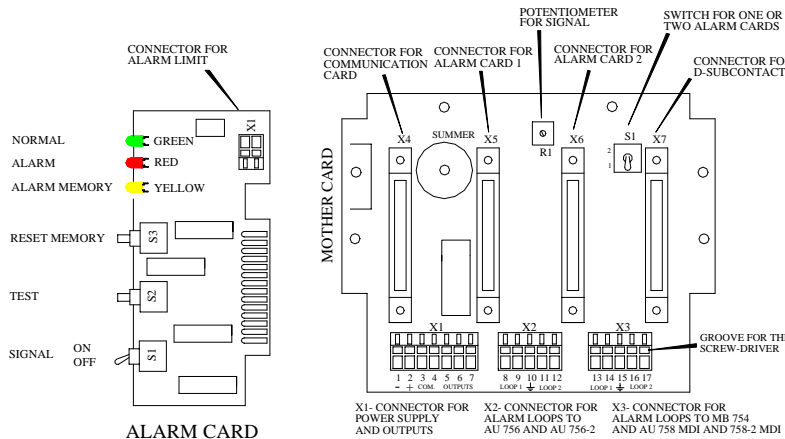
Art.No: Alarm Unit 756-2: 9117562

Visit our home page www.wideco.se for further information about Wideco Security System.

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Alarm Unit 756 and 756-2

Instructions for installing, running and maintenance.



GENERAL INFORMATION

The alarm unit is supplied ready for mounting on a wall and for direct connection of the alarm loop etc. The transformer is included.

The Alarm Unit 756 consists of a mother card and an alarm card. The Alarm Unit 756-2 consists of a mother card and two alarm cards. The alarm card is fitted to the mother card, plinth X5 (LC 756) and plinths X5/X6 (LC 756-2). Please note that the switch S1 on the mother card should be in position 1 for one alarm card (LC 756) and in position 1+2 if two alarm cards are fitted (LC 756-2).

MOUNTING

The alarm unit should be positioned so that it is free from electrical disturbance, damp and dust. There are three attachments on the unit for wall mounting. Signal cable EKK (RKK) 3 (5) x 1.5mm² is the most suitable for connecting the alarm wires and the supply pipe to the alarm unit.

CONNECTION TERMINAL

Connection terminals X1, X2 and X3 are the terminal strip type with spring connector. Simply insert a screwdriver blade (size max.3mm) in the required connection in order to open.

INPUTS

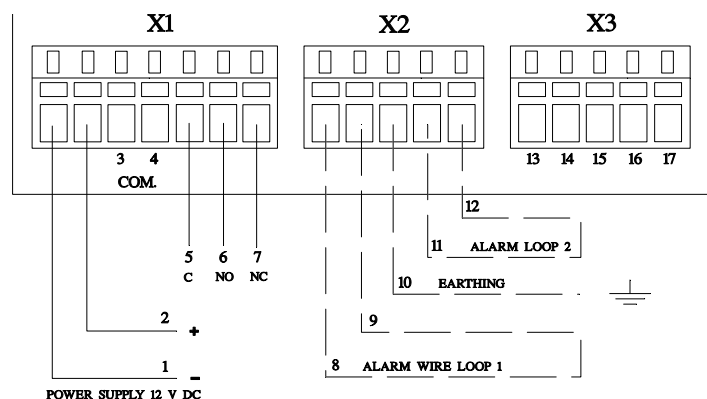
Inputs 8 to 12 (terminal X2) are intended for the alarm wires and also the cable from the supply pipe (earth wire). On Unit 756 the alarm wires is connected to inputs 8 and 9, leaving 11 and 12 open. On Unit 756-2 (two alarm cards), the first alarm wire is connected to connections 8 and 9 and the second alarm wire to connections 11 and 12. The cable from the supply pipe (earth wire) is connected to input 10 on both LC 756 and LC 756-2.

BUZZER

The buzzer is fitted on the mother card and the noise level can be adjusted with the help of a potentiometer R1. There is an on/off switch on the front panel for the buzzer.

EARTHING

Weld a 150 x 10 mm iron strip onto the supply pipe. Bore a hole in one end of the strip and using an M6 screw and nut, connect the earthing cable to the alarm unit's terminal X2 input 10.



POWER SUPPLY

Power supply (12 volt DC min. 200 mA) from the transformer supplied should be connected to terminal X1 inputs 1 and 2. Take care with the polarity. The blue wire is +. The brown wire is -.

ALARM LIMITS/ CHANGING ALARM LIMITS

The alarm limits can be varied between 1 - 500 kohm. Any changes in the alarm limits take place by changing the resistance in terminal X1 on the alarm card. Each alarm card can be given a pre-selected moisture alarm limit. Turn off the current to the alarm unit and carefully withdraw the alarm card from the circuit card holder X5, X6. The alarm limit terminal is a strip model with easy spring connectors (see above). Release the resistance and change to a new alarm limit resistance.

INSTALLATION AND FUNCTION TEST

TEST 1. Before testing, check that only the green light is on. Then press simultaneously the two buttons marked "TEST" and "RESET ALARM MEMORY" for approx. 6 seconds. The red and yellow lights should be activated. The signal buzzer is heard if the switch on the front panel is set at "on". Reset the alarm with the help of the button "RESET ALARM MEMORY". No alarm should be activated within 6 seconds after restoring.

TEST 2. Simulate a break in the wire and short circuit causing the alarm unit to signal these faults. Generally, this function should be tested from a point as far away as possible from the alarm unit. Please note that the built in alarm delay function can take up to 2 minutes before an alarm is given by the unit. This is in order to eliminate false alarms. By carrying out the test in accordance with TEST 1 a quicker check can be made.

NORMAL RUNNING

Only the green light is lit. If the alarm loop is complete and there is no deviation in the pre-selected alarm limits, the alarm loop is scanned 30 times per hour. Every scan period takes 6 - 8 seconds.

THE ALARM

Both the red and the yellow lights are lit. When the alarm is caused by a loop break, short circuit or deviation in the alarm limits the red and yellow light are lit within two minutes and the buzzer sounds if in the "on" position. During this alarm period the alarm loop is scanned 10 - 12 times per day. If the fault which caused the alarm is automatically restored the red light goes out within 2 hours, while the yellow light remains alight until the button "RESET ALARM MEMORY" is pressed. After this the alarm loop is automatically scanned 30 times per hour. If the button for "RESET ALARM MEMORY" is pressed when both the red and yellow light are alight they are switched off. If the alarm is given again after 6 seconds the fault is still present and the reasons for this must be investigated.

FAULT DETECTING

Remove the lower part of the front panel and check that all cables etc. are correctly connected. Also check that the wiring on the pipe and the alarm wire are fault free. Then press once again the button "RESET ALARM MEMORY". If the alarm is still activated the following causes should be searched in:
a/ break, short circuiting or deviation in pre-selected alarm limits. b/ faults in the alarm unit's circuit card.

METHOD OF FAULT-DETECTION

Remove the connecting wires from the connection terminal and control the alarm wire using an ohm meter. The loop resistance, measured between the alarm wires should register within the area 1.1 - 1.4 ohm/100m wire. Any resistance over 200 ohm could mean that the alarm wire loop is broken. Also control the resistance in the insulation between the alarm wire and the supply pipe. This resistance should considerably exceed the pre-selected alarm limits in the alarm unit.

Dimensions: W200 x H180 x D110 mm. (H inc. cable inlets). Weight: 700 g. Exc. transformer.
CE-marked

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POSTADDRESS
Wideco Sweden AB
Företagsgatan 7
504 94 Borås

KONTAKT
Tel. 033 - 18 10 10
Fax. 033 - 10 73 10
Email: info@wideco.se