

BINTECH

**ALARM INDICATOR UNIT BI-4000H
RELAY
NON- HAZARDOUS AREA**

September 2012

This note describes the installation and commissioning
of the Bintech Alarm Indicator Unit BI-4000H



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INSTALLATION OF THE BINTECH ALARM INDICATOR UNIT

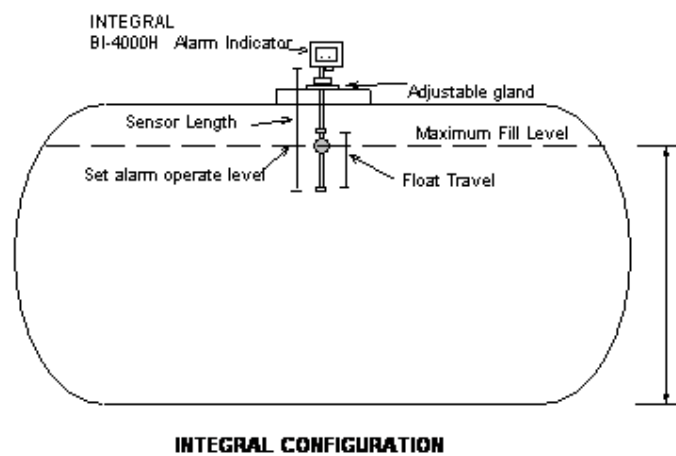
1. INTRODUCTION

The Bintech Alarm Indicator Unit is battery powered and enables the monitoring of the fluid level of a remote tank. It may be set to provide a high level audible and visual alarm. It has the ability to monitor up to three individual tanks or floats. It is used in association with a magnetic float level switch fitted to the tank.

The unit is rated for an external non-hazardous environment

2. INSTALLATION – TYPICAL

2.1 Single Unit



2.2 Level Switch

The BI-4000H has the ability to monitor one (1) level switches providing an alarm. For remote monitoring remove lid and run remote switch cable through gland provided. Terminate wires to appropriate terminals. Refer to section 2.3 and diagram in 3.0.

2.3 Connections

FLOAT	TERMINAL	INDICATOR
Switch 3	J3 + / c	Alarm1

EXTERNAL POWER	TERMINAL
9 - 24V DC	J7/1(+) J7/2 (-)

For relay see section 3

2.4 Testing

After unpacking, the unit should be tested before installation. Remove packaging holding the float in place. The float should then move freely between the limit collars on the guide tube. Typically the switch will operate with the float approximately 15 to 20 mm above the bottom collar. If the alarms do not operate check the internal battery - see section 3.

2.5 Fitting to the tank

Fill the tank to the required operating level. Maximum (for the high level alarm). Remove the access plug and screw in the level switch. Loosen the adjustable gland.

2.6 Setup

High level alarm. With the tank filled to the required level, slide the unit up to its maximum height and then slowly move it downwards until the alarms operate. Tighten the gland seal to lock the guide tube in position. The alarm level is now set.

2.7 Operation

A/ Momentary level switch (On/Off) (minimum of 1 sec)

Continuous siren and flashing indicator for 120 seconds or until Cancel Alarm Key, unit then goes to standby.

B/ Continuous level switch (On)

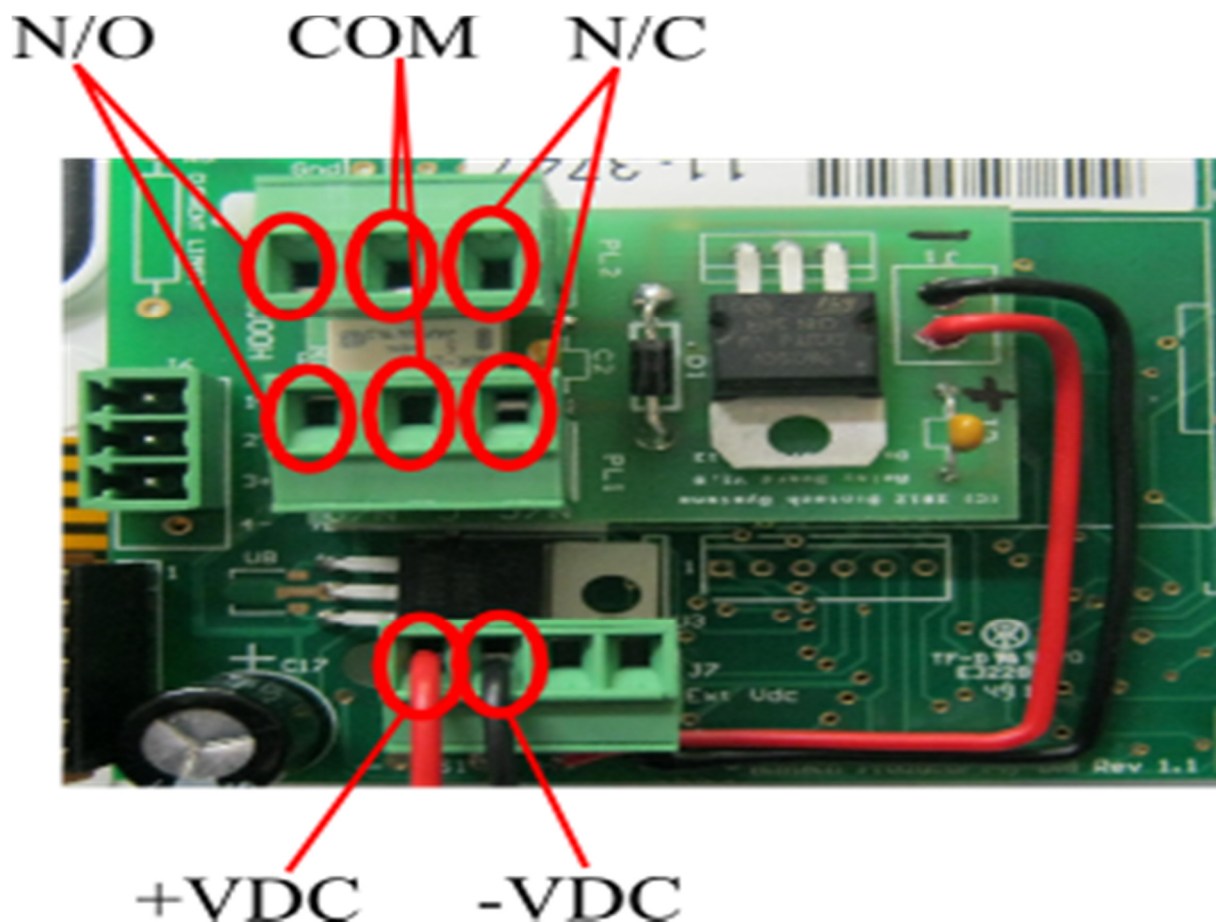
Continuous siren and flashing indicator for 120 seconds, unit then gives short burst of siren each 20 seconds, until 60 minute timeout or level switch goes off or Cancel Alarm Key. Unit then switches off.

C/ Test Alarm Key (Hold for minimum of 1 sec)


Performs full function as if level switch operated and released.

3. MAINTENANCE & FAULT FINDING

No maintenance is required except for periodic testing of the alarm (before fill or monthly).



3. SPECIFICATIONS

Enclosure:	Cast Alloy, IP65
Mounting:	Fixed to sensor (remote mount optional)
Orientation:	Vertical $\pm 30^\circ$
Environment:	External (non-hazardous area)
Alarms:	Warble Siren 95 dBA and flashing LED
Alarm Duration:	120 sec
Keys:	Cancel Alarm, Test Alarm, Test Battery
Electrical Inputs:	Normally open switches x 1
Process Connection:	1/2 inch BSP to 2 inch BSP (Other process connections as factory options)
Adjustment:	Tank level threshold set via sensor position
Accuracy:	Repeatability 1%
Operating Temperature:	-20°C to 60°C
Power Requirements:	External 9 – 24 VDC Max 60mA
Dimensions:	L x H x D, 115 x 90 x 55 mm
Weight:	2 kg with process connections
Compliance:	Meets the requirements of AS1940 for overfill indication, 

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