CONTENTS

1.0 Alarm Relay
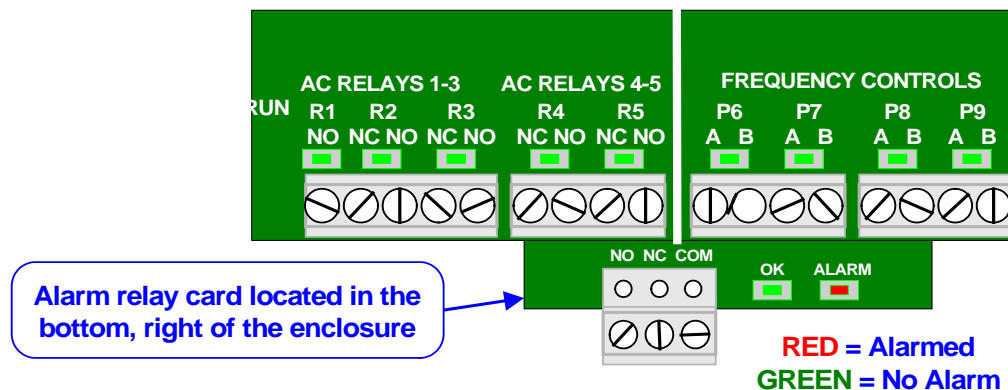
1.0 Alarm Relay

1.1 Operation

The Alarm Relay dry contact set changes state when:
1. Any controller sensor, meter, contact set, pump, valve or system alarm occurs.
2. When the controller loses AC power.

The Alarm relay has both NC (Normally Closed) & NO (Normally Open) dry contacts.
When an Alarm occurs the to NC-to-COM circuit opens and the NO-to-COM circuit closes.
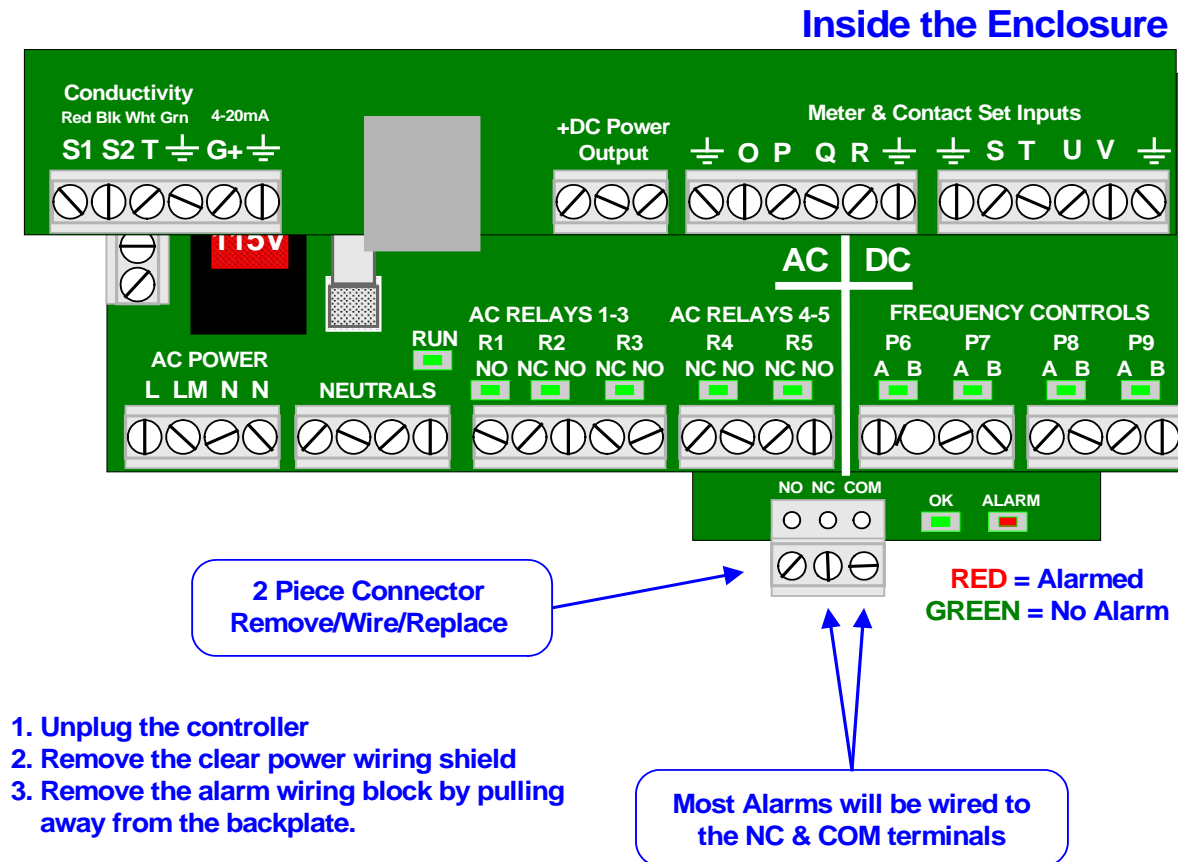
The Alarm dry contacts are rated 250mA @ 250VAC, 500mA @ 125VAC and 2Amps at 30VDC.

Alarm relay card located in the bottom, right of the enclosure

RED = Alarmed
GREEN = No Alarm

1.2 Wiring

The Alarm relay wiring block is rated for AWG 14-26, 300V & 10A
Most alarms to monitoring DCS (Distributed Control Systems) will be wired AWG18-22.

Inside the Enclosure

**2 Piece Connector
Remove/Wire/Replace**

**RED = Alarmed
GREEN = No Alarm**

1. Unplug the controller
2. Remove the clear power wiring shield
3. Remove the alarm wiring block by pulling
    away from the backplate.

**Most Alarms will be wired to
the NC & COM terminals**

Best practice is to wire the alarm to the NC & COM contact set which will open on Alarm.
Loss of controller AC power, a cable break-disconnect and an actual controller alarm will all result in an alarm.

1.3 Install Verify

1.3.1 Install

Parts required:
1. Aegis_AD alarm relay card
2. 12"to18" ribbon cable with socket connectors (Digikey H3AAH-1018-ND or equivalent)
3. Two #6-26 'Nylok' hex nuts

Verify that the upper, Measure Aegis circuit board has an installed 10 pin ribbon cable '**Modem**' socket above the LCD display (Digikey A33159-ND or equivalent).

Install sequence:
1. Unplug controller AC power & remove the clear AC shield.
2. Connect the flat cable to the Aegis_AD card ensuring the **RED** side of the cable aligns with the **RED 1** text on the Aegis_AD card.
3. Place the Aegis_AD on the 3 existing backplate studs under the power circuit board.
4. Plug the other end of the ribbon cable into the measure circuit board Modem socket with **RED** side to the left.
5. Install 6-32 hex 'Nylok' nuts on the front two Aegis_AD mounting screws.
6. Replace the AC shield & plug in the controller AC power.

Note:
Because the Aegis_AD uses the controller Modem connector, the modem and alarm relay controller options are mutually exclusive.

1.3.2 Verify - Browser

Browse the controller at any password level and select
System / **Diagnostic.**

Alarm Relay will be **Yes** if the controller locates the Aegis_AD card at power ON.

The **Alarm Relay** line of the **Diagnostic** page exists in firmware Versions A889 & M889 (Modbus option) from 08/09.

System:	Diagnostic
Serial number	A086X0421
Firmware Version	A889
Relay Fuse	OK
Watchdog Resets	0
Factory Reset	12:00:00 01/01/08
Admin Password	Default
Internal 2.5V	2523.2 (0.99079) mV
15VDC Power	17.5 V
Ethernet	Yes
Alarm Relay	Yes

REFRESH

1.3.2 Verify - Keypad

Alarm Relay Yes/No

Key **ENTER** @ power ON screen.
Or Key **EXIT** until you get to this screen

```
Thu 16:54:10   ↵⇕
S/N:  A076X0486
```

⏎

Key **ENTER** @ **Diagnostic**.

```
Diagnostic     ↵
Communicate    ↓
```

⏎

Key **UP** @ **Relay Fuse**.

```
Relay Fuse
OK             ⇕
```

⬆

Alarm Relay will display **Yes**
if the controller has detected the Aegis_AD card on
power up or **No** if the card is not installed**.**

```
Alarm Relay
Yes            ⇕
```