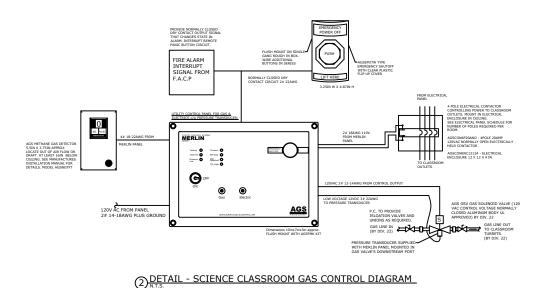
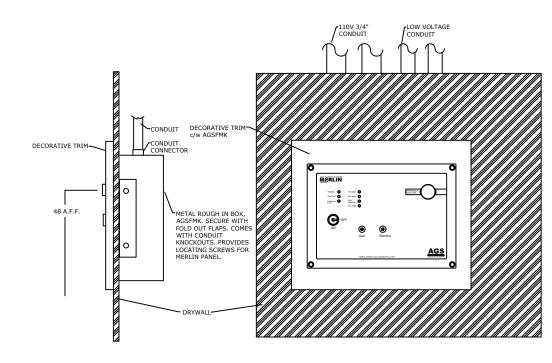
## GAS AND ELECTRIC



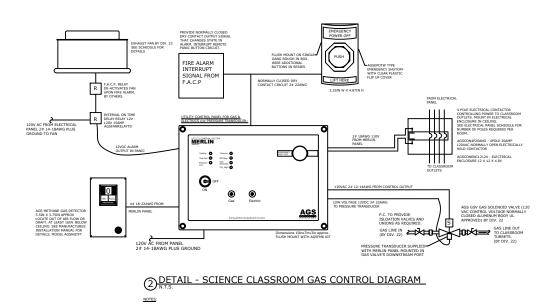
- BASIS OF DESIGN AGS MERLIN 1000S+ UTILITY CONTROL SYSTEM. CONTACT AMERICAN GAS SAFETY FOR INFORMATION. WWW.AMERICANGASSAFETY.COM TEL: (727) 608-4375

DETAIL - SCIENCE CLASSROOM GAS CONTROL DIAGRAM

# INSTALL EXAMPLE



## GAS WITH EXHAUST FAN IN PANIC



- TIMED PURGE INTERRUPTED BY F.A.C.P. RELAY TO SHUT DOWN FAN IN A FIRE ALARM CONDITION. VERIFY LOCATIONS OF CONTROLLER, REMOTE SHUT-OFF BUTTONS, SOLENOID, ELECTRICAL CONTACTORS AND RELAYS WITH DRAWINGS AND OWNER IN FIELD.
- UNLESS NOTED OTHERWISE, P.C. TO SUPPLY CONTROLLER, REMOTE SHUT-OFF BUTTONS, GAS DETECTOR, SOLENDID, ELECTRICAL CONTACTORS AND RELAYS AS A WHOLE SYSTEN. P.C. TÓ COORORDINATE WITH E.C.
- SYSTEM, P.C. TO COORDOBINATE WITH E.C.

  SHALES NOTED THERWISE, WIRES, ELECTRICAL CONNECTIONS AND TESTING BY DIV.

  26. COORDONATE GAS SOLEMOID VALVE LOCATION AND FIELD WIRES WITH DIV. 22.

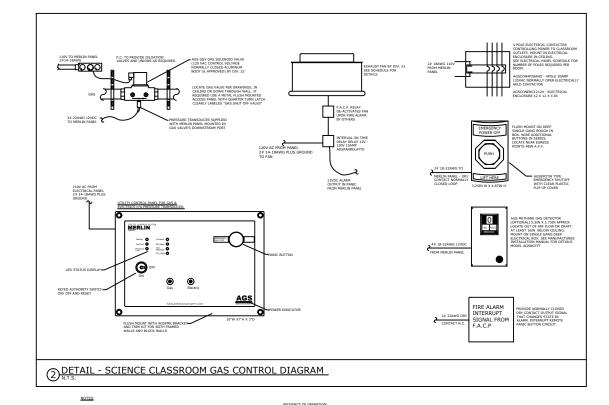
  PRESSURE TRANSDUCES SUPPLIED WITH CONTROL PAIRS, INSTALLED IN DOWNSTREAM
  PORT OF GAS SOLEMOID SUPPLIED BY P.C. SEE MANUFACTURER'S DETAILS.

  120V AC SUPPLY TO CONTROLLER TO CONTROLLER TO WINDLER SUPPLY SIGNAL TO
  PRESSURE TRANSDUCK. IZ DE GASPLY FROM CONTROLLER TO GAS THE TO THE SUPPLY SIGNAL TO
  PRESSURE TRANSDUCK. TO THE SUPPLY FROM CONTROLLER TO GAS THE TOP

  BY THE ALARM CONTROL MODULE OUTPUT INTERBUPTS EMPRICANCY SHATOFF (EPO)

  BUTTON COLORS.

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 VERIFY LOCATIONS OF CONTROLLER, REMOTE SHUT-OFF BUTTONS, RELAYS AND SOLENOID WITH DRAWINGS AND OWNER IN FIELD. UNLESS NOTED OTHERWISE, P.C. TO SUPPLY CONTROLLER, REMOTE SHUT-OFF BUTTONS, GAS DETECTOR, RELAYS AND SOLENOID AS A WHOLE SYSTEM. P.C. TO COORORDINATE WITH E.C. UNLESS NOTED OTHERWISE, WIRING, ELECTRICAL CONNECTIONS AND TESTING BY DIV.
 COORDINATE GAS SOLENOID VALVE LOCATION AND FIELD WIRING WITH DIV. 22. PRESSURE TRANSDUCER SUPPLIED WITH CONTROL PANEL, INSTALLED IN DOWNSTREAM PORT OF GAS SOLENOID SUPPLIED BY P.C. SEE MANUFACTURER'S DETAILS. 6. 1897 AC SUPPLY TO CONTROLLER, 1207 AC SUPPLY FROM CONTROLLER TO SOLENION.

LOW YOLKNES SUPPLY STORM LT PRESSURE TRANSDUCER. 13Y DC SUPPLY FROM

CONTROLLER TO GAS DETECTOR.

7. FIRE ALARM CONTROL MODULE OUTPUT INTERRUPTS EMERGENCY SHUTOFF (EPO)

BUTTON CIRCUIT. BASIS OF DESIGN AGS MERLIN 1000S+ UTILITY CONTROL SYSTEM. CONTACT AMERICAN GAS SAFETY FOR INFORMATION. WWW.AMERICANGASSAFETY.COM TEL: (727) 608-4375

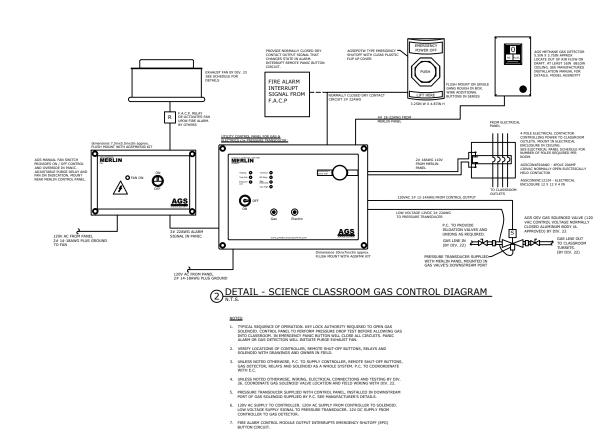
SEQUENCE OF OPERATION:

1. KEYED AUTHORITY REQUIRED TO MAKE UTILITY SELECTION AND RE-SET PAMEL AFTER AN ALARM. KEY IS NOT REQUIRED TO REMAIN IN THE PAMEL AFTER THE INITIAL SELECTION HAS BEEN MADE. UTILITY SELECTION IS PRO-MODIFIELD AS END THE RELIGIOUS SERVICE OF THE AUTHORITY RET.

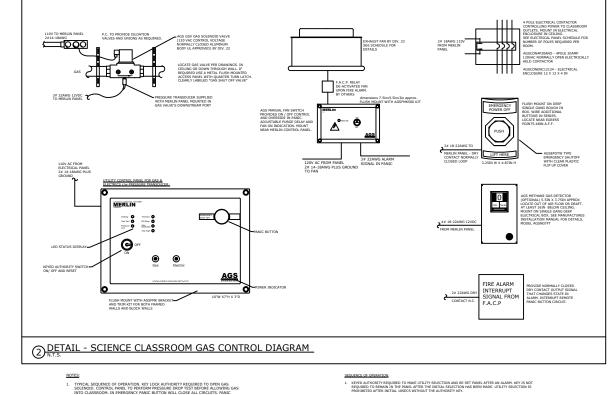
2. GAS SERVICE ONCY SUPPLIED ATTERS ADSCE PRESSURE DROP TEST ENSURES ALL GAS TURRETS ARE
CLOSED AND ALL GAS PRES SOURD AND IN TACK.

3. ACTIVATION OF PARIC BUTTON, REMOTE PANIC BUTTON, FIRE ALARM IMPUT, GAS DETECTOR AND TIME-OUT
PRINCIPLO SHALL DESCRIPTION. ALARM CONDITION SHALL INITIATE EXHAUST FAIL FAIL SHALL RUN FOR ALLOTTED TIME OR WHILST MERLIN PAREL IS IN ALARM, F.A.C.P. RELAY SHALL INTERRUPT FAIR POWER IN A FIRE ALARM CONDITION.
 LOW GAS PRESSURE BELOW 4.8INCH/WC THAT EXISTS FOR >10SEC SHALL CAUSE THE GAS TO BE SHUT DOWN.

### GAS WITH MANUAL EXHAUST FAN AND IN PANIC



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 VERIFY LOCATIONS OF CONTROLLER, REMOTE SHUT-OFF BUTTONS, RELAYS AND SOLENOID WITH DRAWINGS AND OWNER IN FIELD. UNLESS NOTED OTHERWISE, P.C. TO SUPPLY CONTROLLER, REMOTE SHUT-OFF BUTTONS, GAS DETECTOR, RELAYS AND SOLENOID AS A WHOLE SYSTEM. P.C. TO COORORDINATE WITH E.C. UNLESS NOTED OTHERWISE, WIRING, ELECTRICAL CONNECTIONS AND TESTING BY DIV.
 COORDINATE GAS SOLENOID VALVE LOCATION AND FIELD WIRING WITH DIV. 22. PRESSURE TRANSDUCER SUPPLIED WITH CONTROL PANEL, INSTALLED IN DOWNSTREAM PORT OF GAS SOLENOID SUPPLIED BY P.C. SEE MANUFACTURER'S DETAILS. 120V AC SUPPLY TO CONTROLLER. 120V AC SUPPLY FROM CONTROLLER TO SOLENOID.
LOW VOLTAGE SUPPLY SIGNAL TO PRESSURE TRANSDUCER. 12V DC SUPPLY FROM
CONTROLLER TO GAS DETECTOR.

BASIS OF DESIGN AGS MERLIN 1000S+ UTILITY CONTROL SYSTEM. CONTACT AMERICAN GAS SAFETY FOR INFORMATION. WWW.AMERICANGASSAFETY.COM TEL: (727) 608-4375

 GAS SERVICE ONLY SUPPLIED ATTER A 30SEC PRESSURE OROP TEST ENSURES ALL GAS TURRETS ARE
CLOSED AND ALL GAS FIRE IS SOUND AND IN TACK.
 ACTIVATION OF PANIC BUTTON, REPORTE PANIC BUTTON, FIRE ALARM INPUT, GAS DETECTOR AND TIME-OUT
FUNCTION STRALL DISCITRACE ALL DISCITRACES. MANALE FAR DO () OFF VIA AGE STS FAR CONTRICE.

 ALAND CONTRICTOR SHALL OWERDER EST CONTRICE AND TURN ON FAN FOR ALLOTTED PURIGE THE ADJUSTAGE VIA NUTRIENAL DO SWITCHES.

 LIOW AGE PRESSURE BELOW 4.BINCH/WC THAT EXISTS FOR > 1055C SMALL CAUSE THE GAS TO BE SHIT DOWN.

