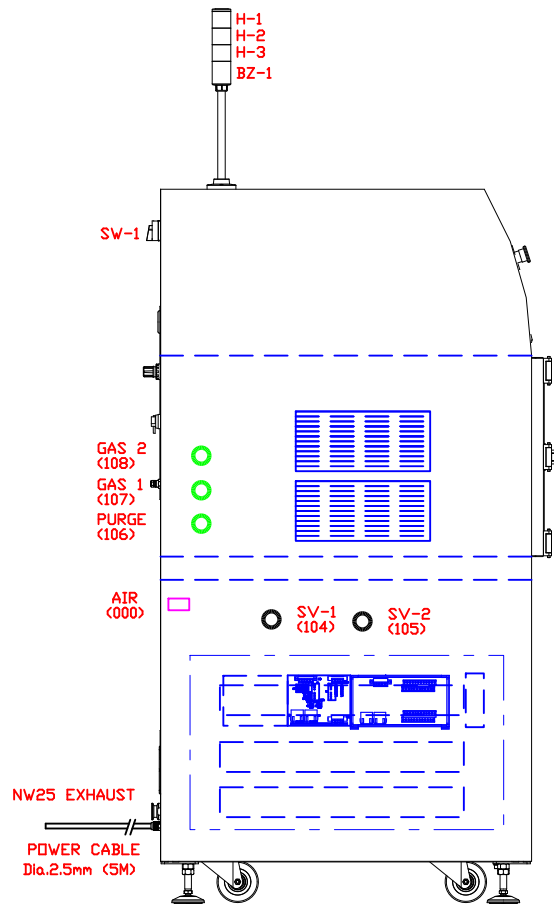
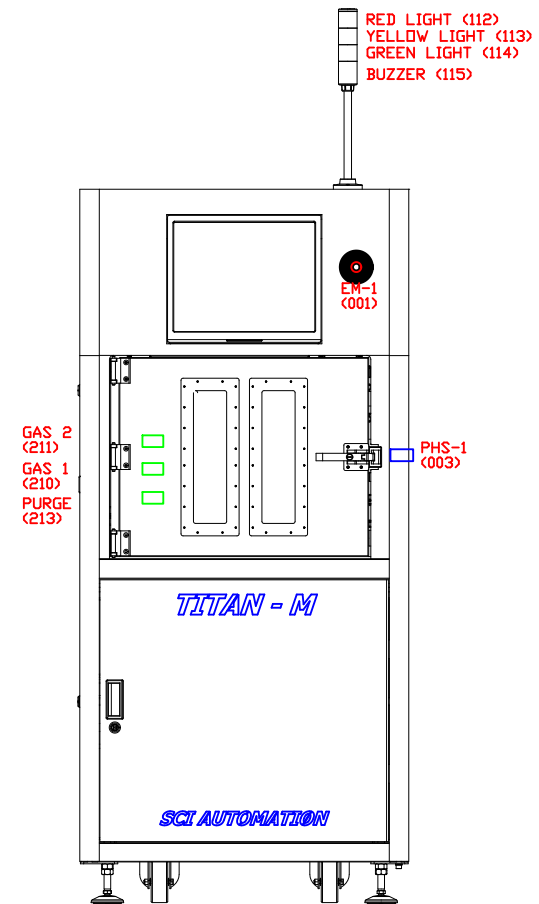


APPROVED BY :

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 · Fax: +65 64651887		Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
		Drawn by	—	File Name	TITAN-E1-PC		
		Date	20-06-2012	Material	—	Colour	—
Scale: NTS		TITAN M POWER CIRCUIT					Remarks —



SIDE VIEW



FRONT VIEW

LEGEND:	
	PROXIMITY SENSOR
	SOLENOID VALVE
	AIR SENSOR
	GAS VALVE
	GAS SENSOR

APPROVED BY :

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 - Fax: +65 64651887		Engineer	DANNY FOO	Job No.	STANDARD	Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm	
		Drawn by	—	File Name	TITAN-E1-SL1		
		Date	20-06-2012	Material	—	Colour	—
Scale: NTS 		TITAN M SENSOR LAYOUT				Remarks	—

APPROVED BY :

ANALOG INPUT/OUTPUT UNIT

HSL-AI16AO2-M-VV

ANALOG INPUT

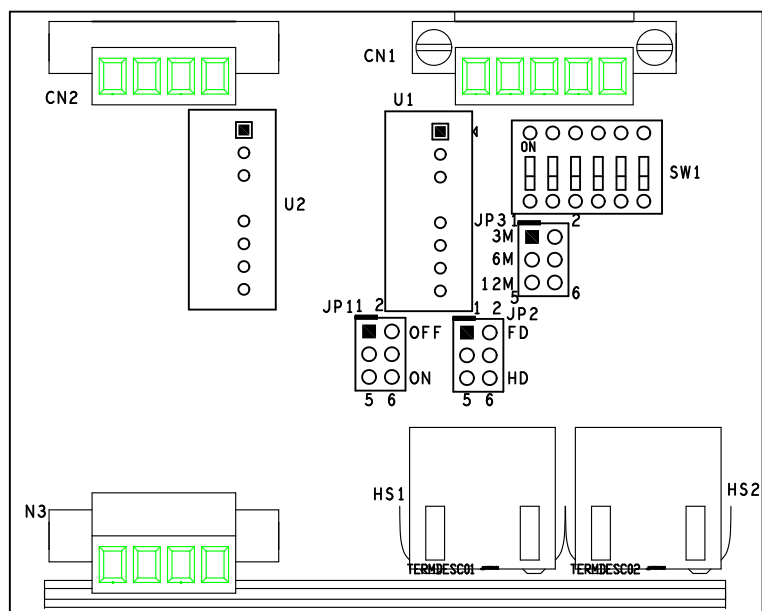
ANALOG OUTPUT/AGND

PRESSURE SENSOR	200 (+)	A0	A16	400 (+)	TUNE SET
GAS 1 FLOW	201 (+)	A1	A17	401 (+)	LOAD SET
GAS 2 FLOW	202 (+)	A2	A18	AGND	
GAS 3 FLOW	203 (+)	A3	A19	AGND	
SPARE	204 (+)	A4	A20	AGND	
FORWARD POWER	205 (+)	A5	A21	AGND	
REVERSE POWER	206 (+)	A6	A22	AGND	
BIAS	207 (+)	A7	A23	AGND	
TUNE POSITION	208 (+)	A8	A24	AGND	
LOAD POSITION	209 (+)	A9	A25	AGND	
GAS 1 PRESSURE SENSOR	210 (+)	A10	A26	AGND	
GAS 2 PRESSURE SENSOR	211 (+)	A11	A27	AGND	
GAS 3 PRESSURE SENSOR	212 (+)	A12	A28	AGND	
PURGE PRESSURE SENSOR	213 (+)	A13	A29	AGND	
SPARE	214 (+)	A14	A30	AGND	
SPARE	215 (+)	A15	A31	AGND	

APPROVE BY:

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 - Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm	
	Drawn by	—	File Name	TITAN-E2-AI16AO2			
	Date	20-06-2012	Material	—		Colour	—
	Scale: NTS		TITAN M ANALOG INPUT/OUTPUT UNIT (16/2 POINTS)				Remarks

ANALOG OUTPUT UNIT HSL-AO4-U



CN1

E24	24V (+)	+24V
E24	24V (+)	+24V
EG	AGND	AGND
EG	AGND	AGND
FG	E	E

CN2

AO1	300 (V+)	RF SET
AG	300 (-)	SIGNAL COMMON
AO2	301 (V+)	GAS 1 SET
AG	301 (-)	SIGNAL COMMON

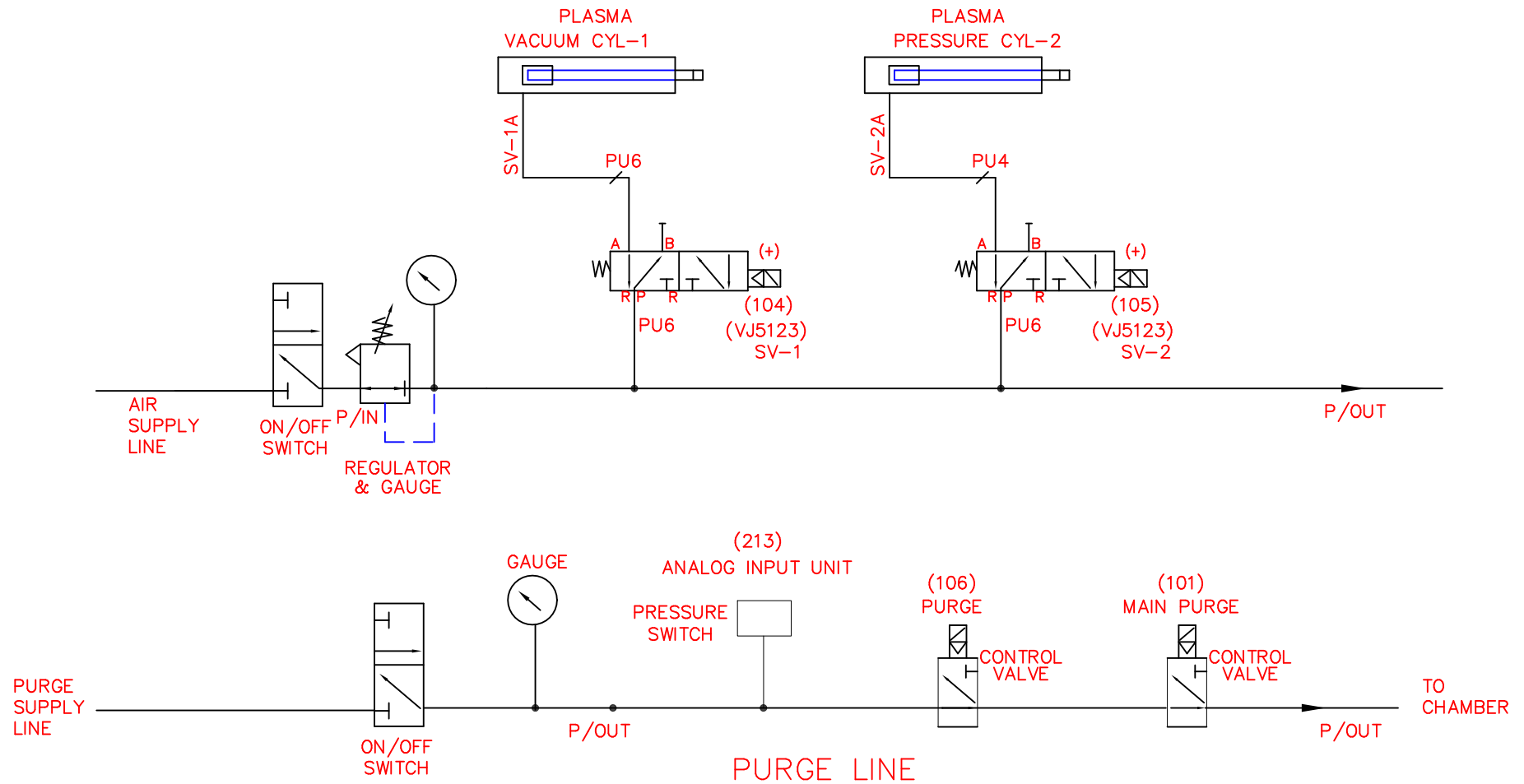
CN3

AO2	302 (V+)	GAS 2 SET
AG	302 (-)	SIGNAL COMMON
AO2	303 (V+)	GAS 3 SET
AG	303 (-)	SIGNAL COMMON

APPROVE BY:

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	Drawn by	—	File Name	TITAN-E2-AO4			
	Date	20-06-2012	Material	—		Colour	—
		TITAN M ANALOG OUTPUT UNITS (4 POINTS)					Remarks

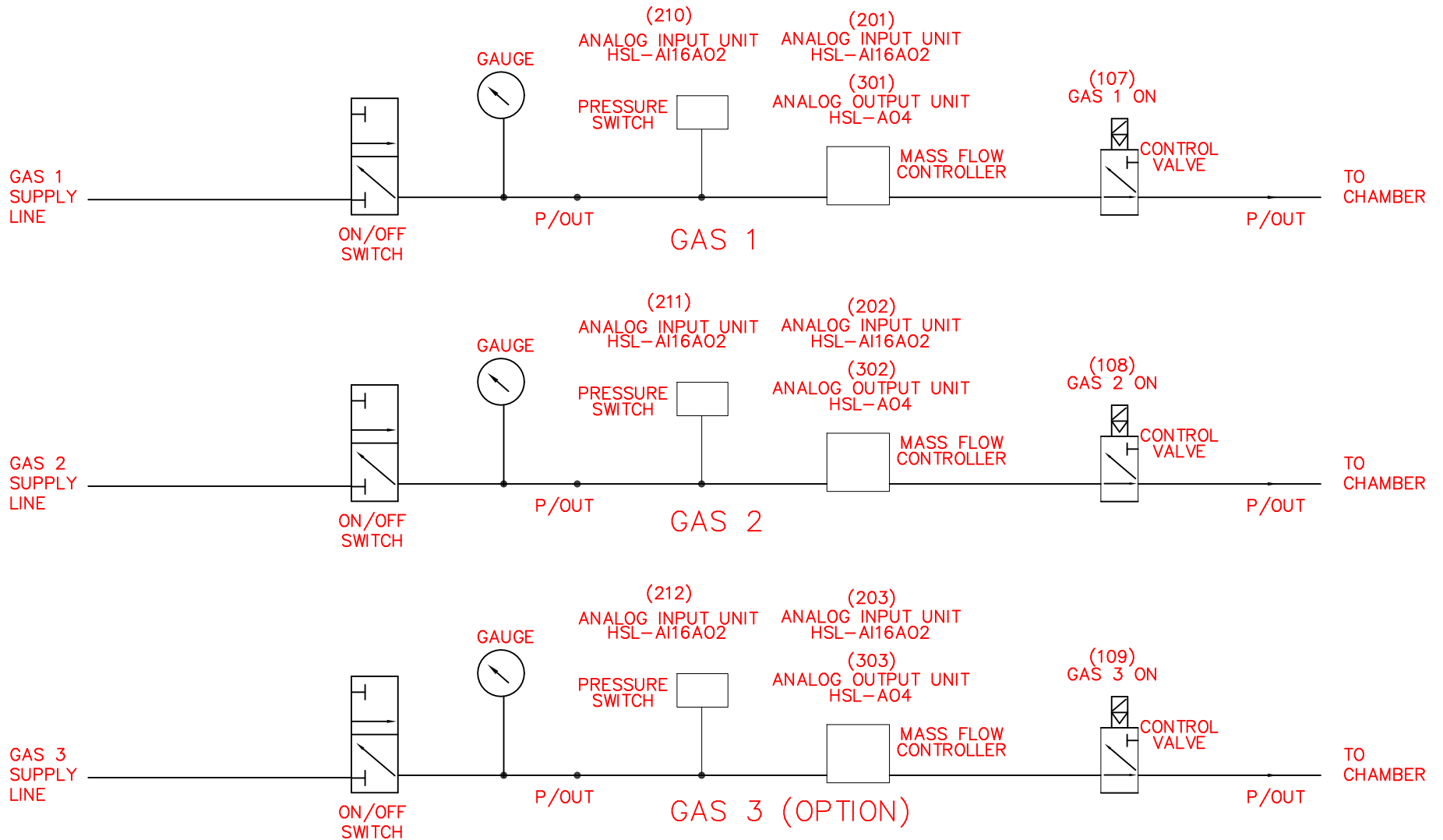
PNEUMATIC CIRCUIT



APPROVED BY :

SCI Automation 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 · Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
	Drawn by	—	File Name	TITAN—E2—PN1		
	Date	20-06-2012	Material	—	Colour	—
	Scale: NTS					
			TITAN M PNEUMATIC CIRCUIT			—

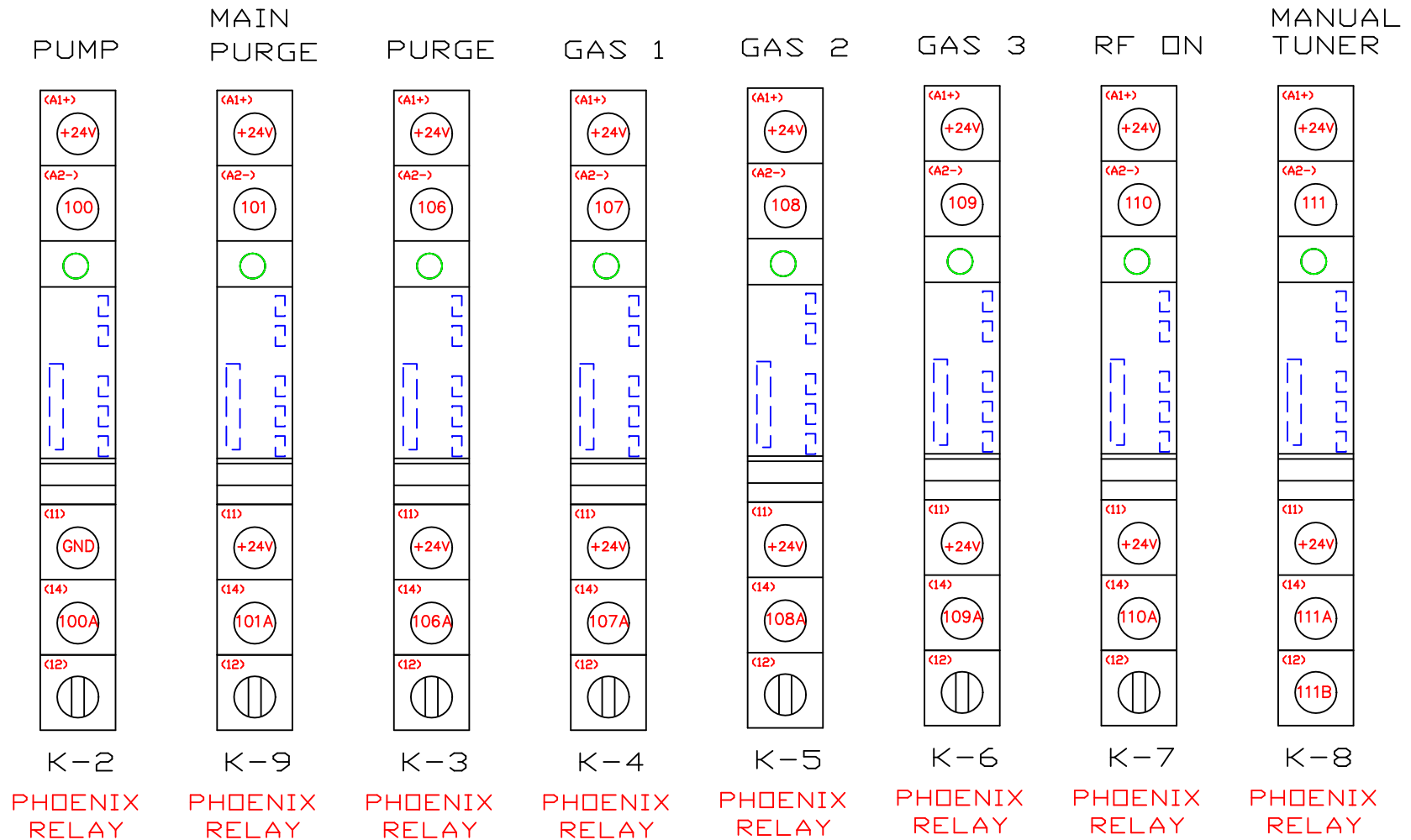
GAS LINES



APPROVED BY :

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 - Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm	
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	Date	20-06-2012	Material	—		Colour	—
	Scale: NTS						

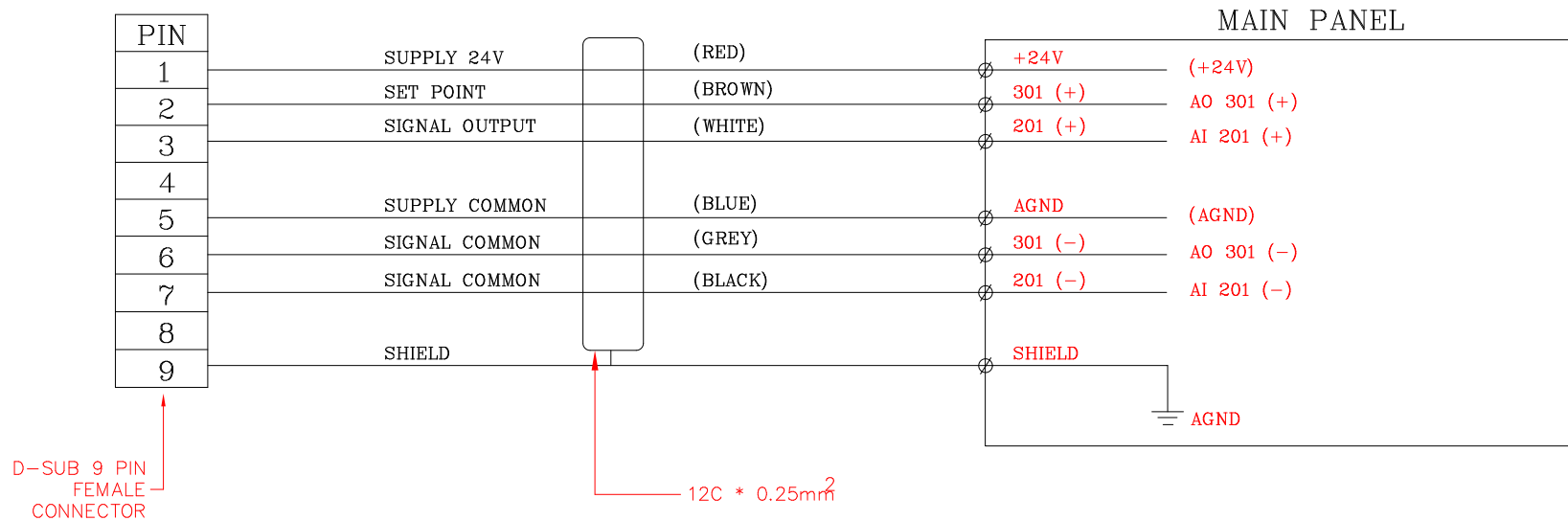
RELAY OUTPUTS



SCI Automation 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 Fax: +65 64651887	Engineer	DANNY FOO	Job no.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol: ±0.1mm
	Drawn by	—	File Name	TITAN-E2-RO		
	Date	20-06-2012	Material	—	Colour	—
Scale: NTS			TITAN M RELAY OUTPUTS			Remarks —

MASS FLOW CONTROLLER 1

P/N: E0000808

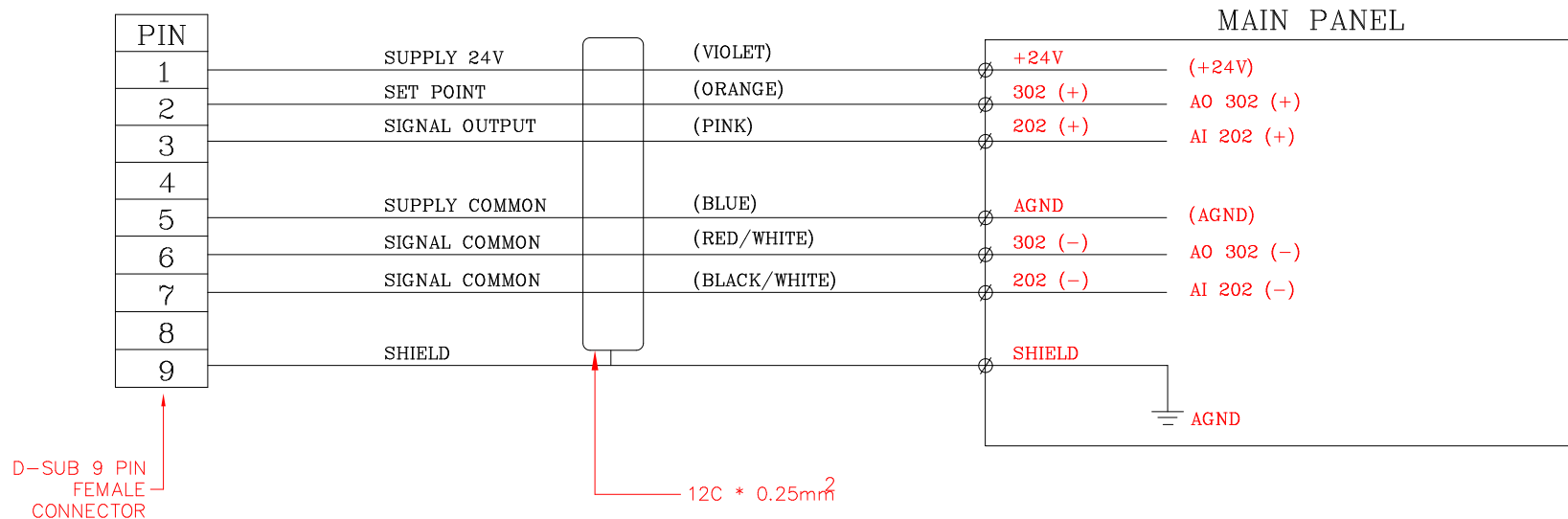


APPROVE BY:

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 - Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm	
	Drawn by	—	File Name	TITAN-E3-G1			
	Date	20-06-2012	Material	—		Colour	—
	Scale: NTS		TITAN M MASS FLOW CONTROL GAS 1 CIRCUIT				Remarks —

MASS FLOW CONTROLLER 2

P/N: E0000808

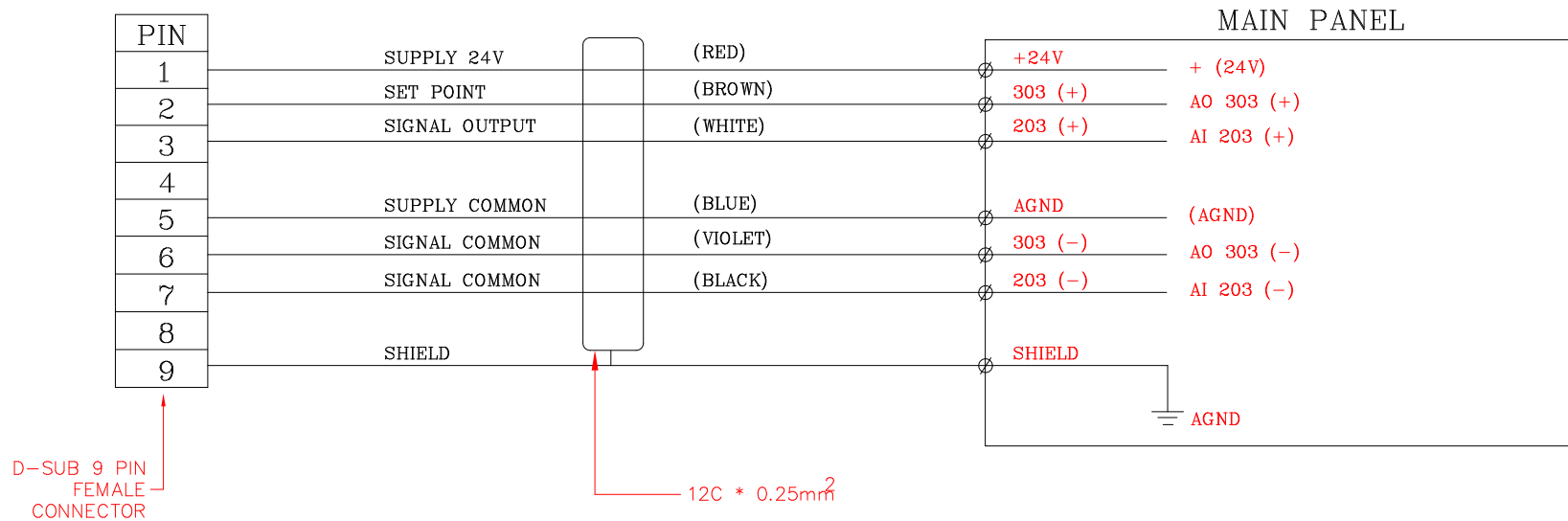


APPROVE BY:

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 - Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm	
	Drawn by	—	File Name	TITAN-E3-G2			
	Date	20-06-2012	Material	—	Colour		—
	Scale: NTS						
	TITAN M MASS FLOW CONTROL GAS 2 CIRCUIT					Remarks	—

MASS FLOW CONTROLLER 3

P/N: E0000808

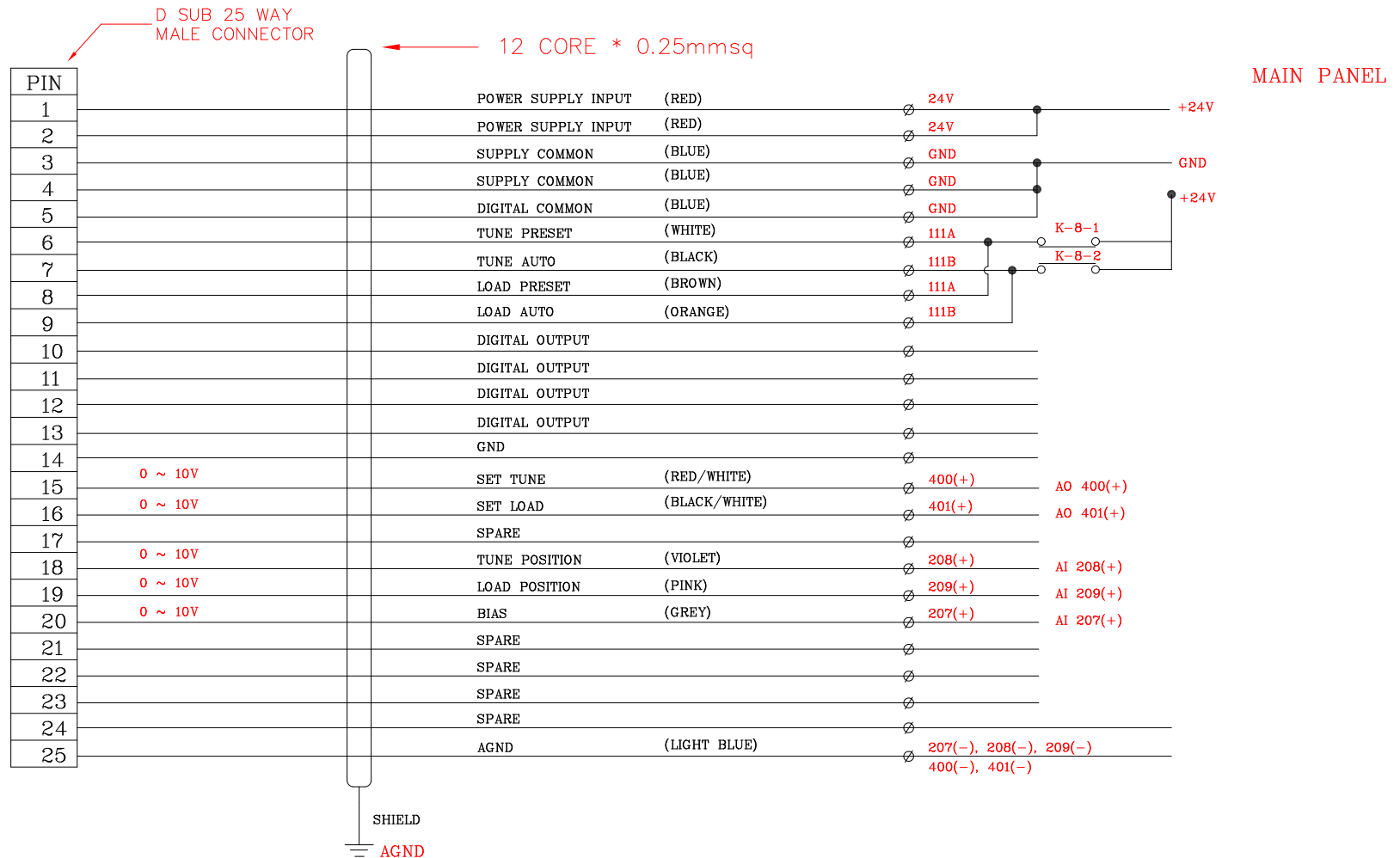


APPROVE BY:

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 · Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm	
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	Date	20-06-2012	Material	—	Colour		—
	Scale: NTS						
	TITAN M MASS FLOW CONTROL GAS 3 CIRCUIT					Remarks	—

T1000 TUNER

P/N: E0000749



APPROVE BY:

SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 · Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
	Drawn by	—	File Name	TITAN-E3-MT		
	Date	20-06-2012	Material	—	Colour	—
Scale: NTS			TITAN M MANUAL TUNER CIRCUIT			Remarks —

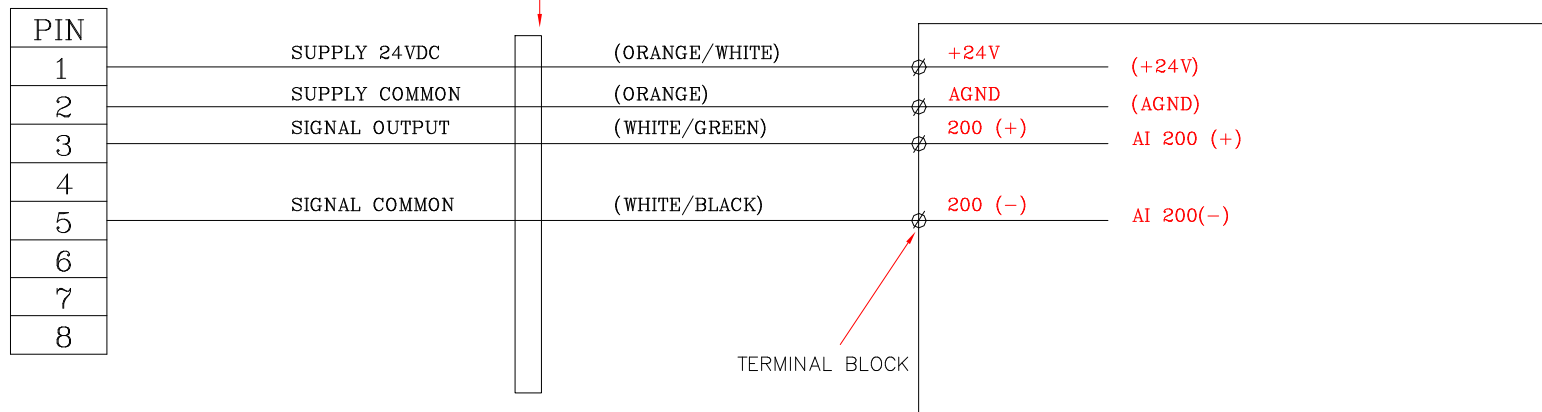
PRESSURE GAUGE


P/N: E000767

RJ45
8 WAY CONNECTOR

8 WAY LAN STRAIGHT CABLE

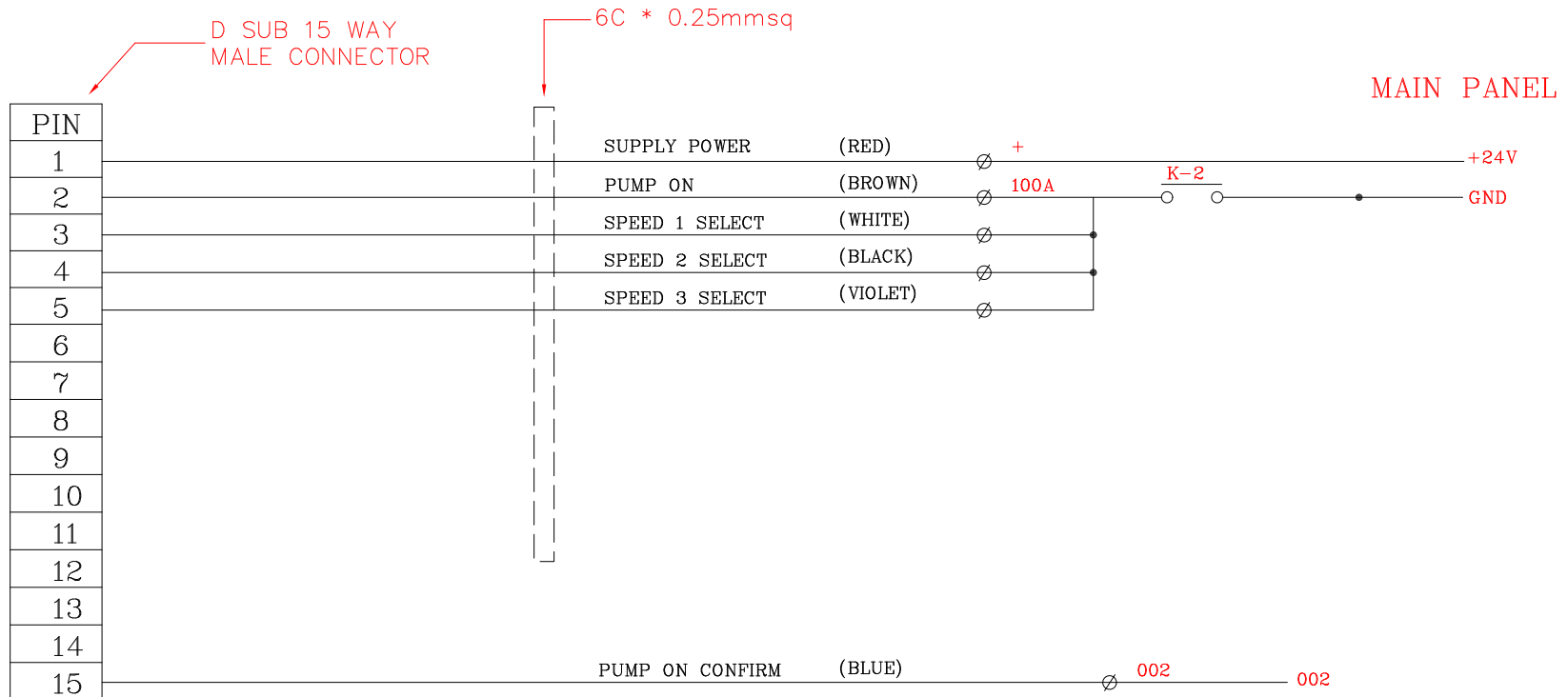
MAIN PANEL



SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 · Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
	Drawn by	—	File Name	TITAN-E3-PG		
	Date	20-06-2012	Material	—	Colour	—
Scale: NTS		TITAN M PRESSURE GAUGE CIRCUIT				Remarks —

VACUUM PUMP

P/N: E0000403



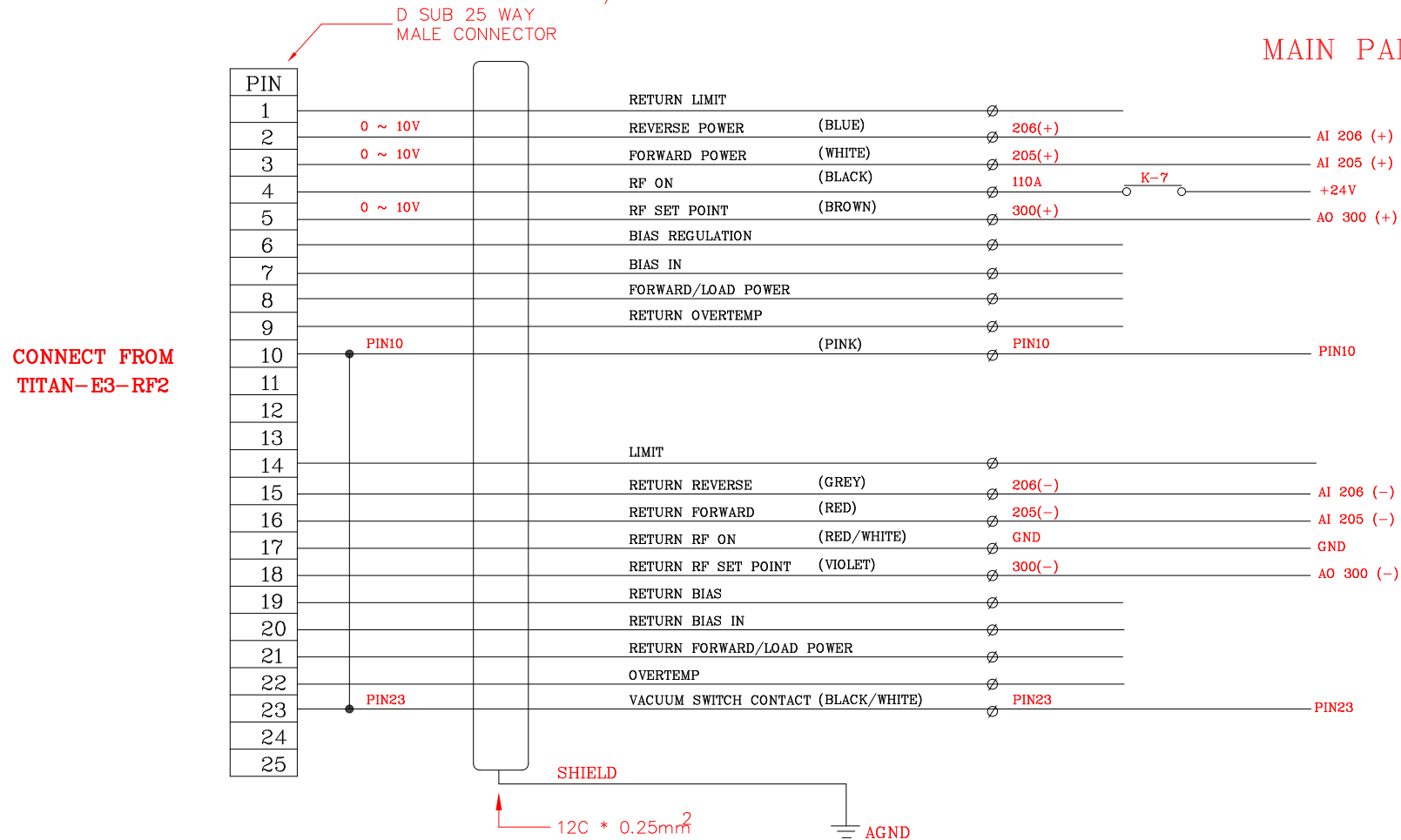
APPROVE BY:

SCI Automation 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel: +65 64651886 • Fax: +65 64651887	Engineer	DANNY FOO	Job No.	STANDARD	Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
	Drawn by	—	File Name	TITAN-E3-PM	
	Date	20-06-2012	Material	—	
	Scale:	NTS		Colour	
			TITAN M PUMP CONNECTOR		Remarks
					—

RF GENERATOR (HI-LIGHT 136)


P/N: E0000512

MAIN PANEL



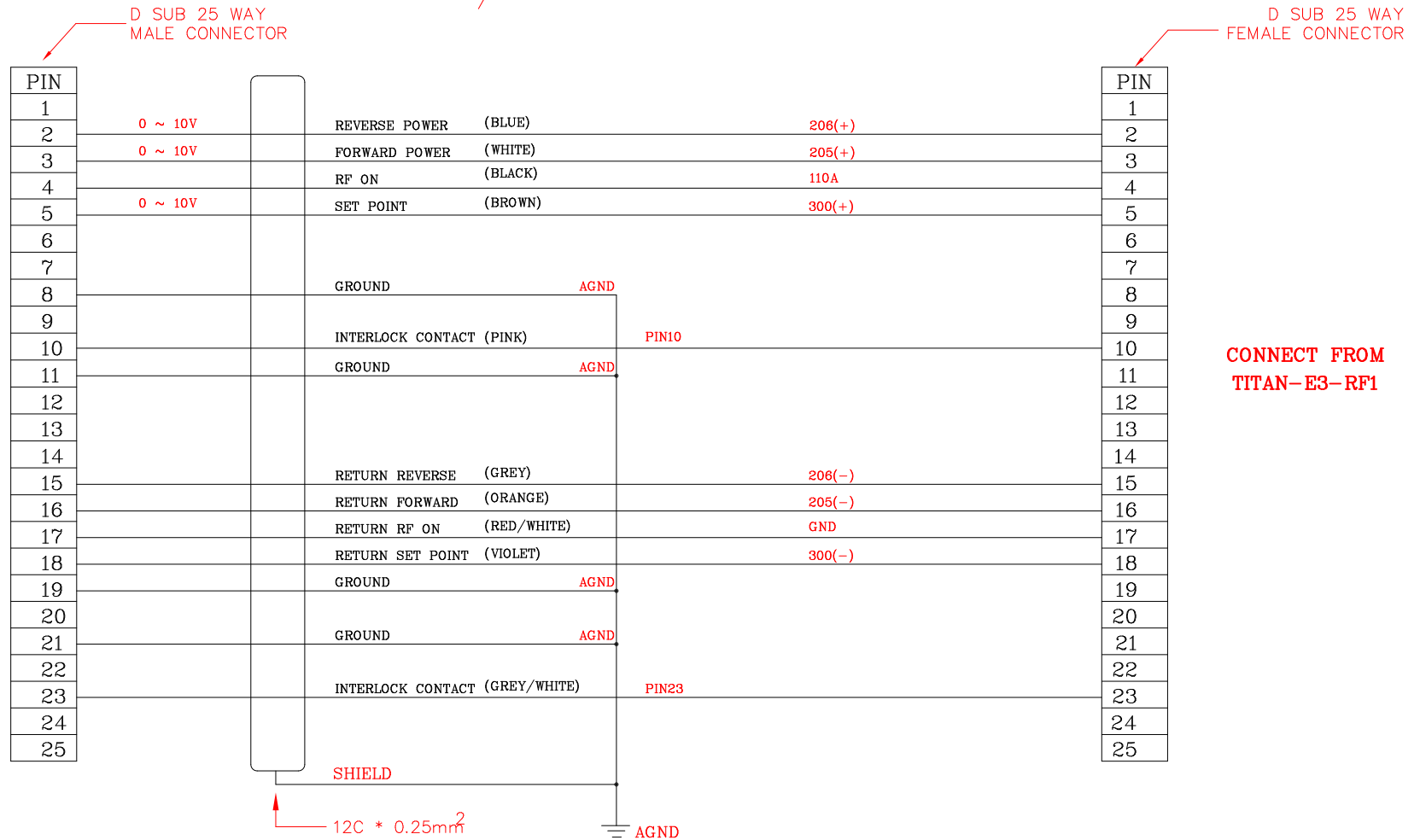
NOTE :
PIN 10 & PIN 23 MUST BE SHORTED IN THE CIRCUIT.
IF USE HI LIGHT 136, CONNECT DIRECTLY TO HI LIGHT 136.

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SCI AUTOMATION 18 Boon Lay Way #08-144 TradeHub 21 Singapore 609966 Tel:+65 64651886 · Fax:+65 64651887	Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
	Drawn by	—	File Name	TITAN-E3-RF1		
	Date	20-06-2012	Material	—	Colour	—
	Scale: NTS					
TITAN M RF GENERATOR 1 CIRCUIT						—

RF GENERATOR (ELITE 600)

P/N: E0000752



APPROVE BY:

SCI AUTOMATION
18 Boon Lay Way
#08-144 TradeHub 21
Singapore 609966
Tel: +65 64651886 - Fax: +65 64651887

Scale: NTS



Engineer	DANNY FOO	Job No.	STANDARD		Unless otherwise specified dimensions are in millimeter Gen. Tol.: ±0.1mm
Drawn by	—	File Name	TITAN-E3-RF2		
Date	20-06-2012	Material	—	Colour	—
TITAN M RF GENERATOR 2 CIRCUIT					Remarks —