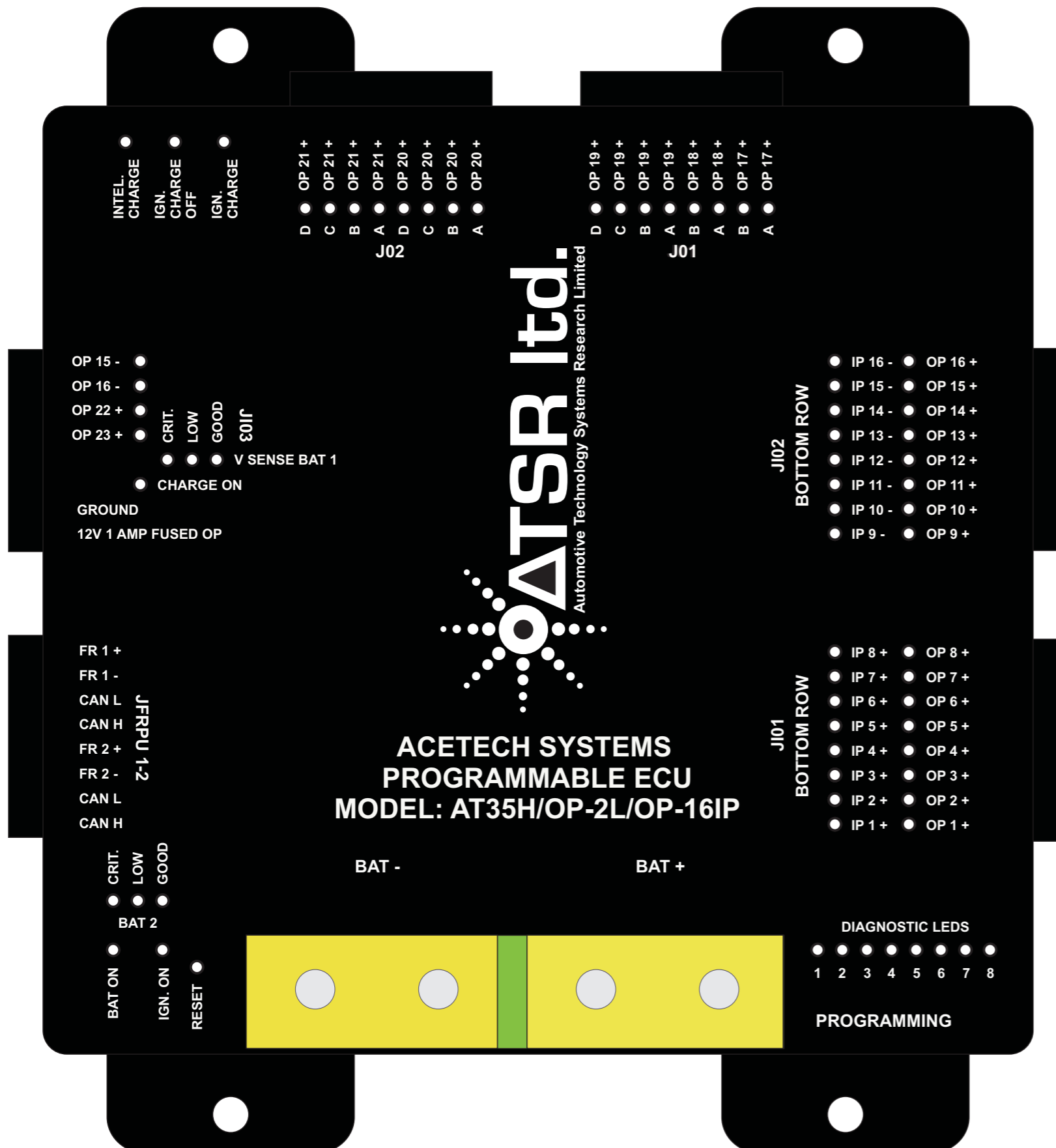


ACETECH SYSTEMS PROGRAMMABLE ECU MODEL AT 35H/OP-2L/OP-16IP



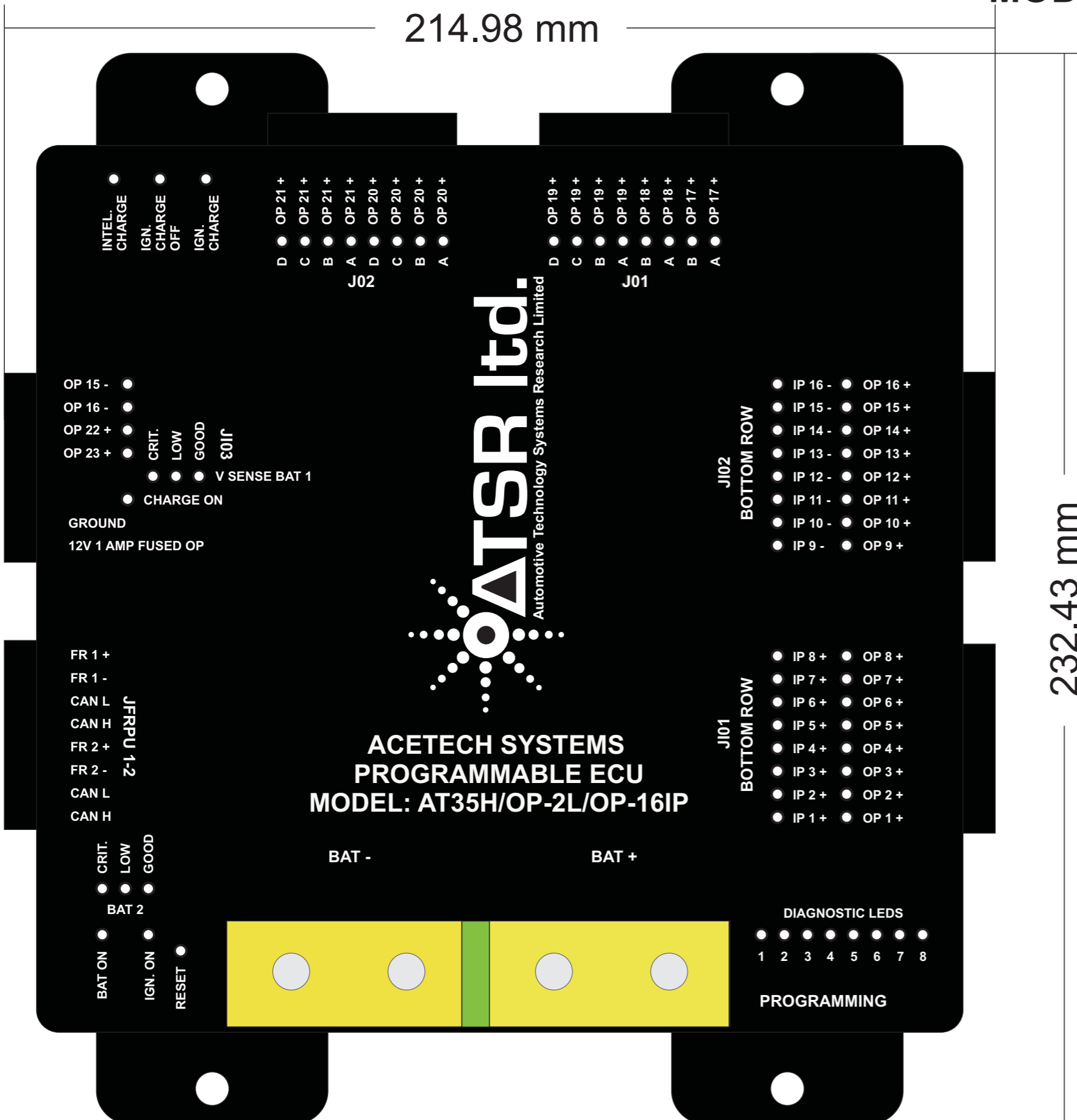
SPECIFICATION:

COMMUNICATION PROTOCOL: CAN J1939 (ISO 11898)
 OPERATING VOLTAGE: 10 - 30 VDC (NEGATIVE GROUND / EARTH)
 SWITCHED HIGH OUTPUTS: 18 X 15 AMP
 SWITCHED LOW OUTPUTS: 2 X 15 AMP
 SWITCHED GROUPED HIGH OUTPUTS: 16 X 15 AMP (5 GROUPS)

2 CHANNEL BATTERY V SENSE (BATTERY MONITORING)
 2 CHANNEL SPLIT CHARGE
 2 CHANNEL BATTERY MANAGEMENT
 LOAD PRIORITIZATION / LOAD SHEDDING

DRAWN: D O D		DATED: 27/11/08		COMPANY:			
CHECKED:		DATED:		TITLE: ECU MODEL AT 35			
QUALITY CONTROL		DATED:		CODE:	SIZE: A 3	DRAWING No.:	REV: 1.0
RELEASED		DATED:		SCALE:		SHEET 1 OF 3	

ACETECH SYSTEMS PROGRAMMABLE ECU MODEL AT 35H/OP-2L/OP-16IP



SPECIFICATION:

COMMUNICATION PROTOCOL: CAN J1939 (ISO 11898)
OPERATING VOLTAGE: 10 - 30 VDC (NEGATIVE GROUND / EARTH)
SWITCHED HIGH OUTPUTS: 18 X 15 AMP
SWITCHED LOW OUTPUTS: 2 X 15 AMP
SWITCHED GROUPED HIGH OUTPUTS: 16 X 15 AMP (5 GROUPS)

2 CHANNEL BATTERY V SENSE (BATTERY MONITORING)
2 CHANNEL SPLIT CHARGE
2 CHANNEL BATTERY MANAGEMENT
LOAD PRIORITIZATION / LOAD SHEDDING

DRAWN: D O D		DATED: 27/11/08		COMPANY:			
CHECKED:		DATED:		TITLE: ECU MODEL AT 35			
QUALITY CONTROL		DATED:		CODE:	SIZE: A 3	DRAWING No.:	REV: 1.0
RELEASED		DATED:		SCALE:		SHEET 2 OF 3	

ACETECH SYSTEMS PROGRAMMABLE ECU MODEL AT 35H/OP-2L/OP-16IP PLUG / TERMINAL IDENTIFICATION

HIGHSIDE SWITCHED OUTPUTS

PLUG JI01

OUTPUT / OP 1+
OUTPUT / OP 2+
OUTPUT / OP 3+
OUTPUT / OP 4+
OUTPUT / OP 5+
OUTPUT / OP 6+
OUTPUT / OP 7+
OUTPUT / OP 8+

PLUG JI02

OUTPUT / OP 9+
OUTPUT / OP 10+
OUTPUT / OP 11+
OUTPUT / OP 12+
OUTPUT / OP 13+
OUTPUT / OP 14+
OUTPUT / OP 15+
OUTPUT / OP 16+

PLUG J01

GROUPED HIGHSIDE OUTPUTS (SWITCHED - BATTERY - IGNITION - ISOLATED ENABLED)

OUTPUT / OP 17+ (A)
OUTPUT / OP 17+ (B)
OUTPUT / OP 18+ (A)
OUTPUT / OP 18+ (B)
OUTPUT / OP 19+ (A)
OUTPUT / OP 19+ (B)
OUTPUT / OP 19+ (C)
OUTPUT / OP 19+ (D)

PLUG J02

GROUPED HIGHSIDE OUTPUTS (SWITCHED - BATTERY - IGNITION - ISOLATED ENABLED)

OUTPUT / OP 20+ (A)
OUTPUT / OP 20+ (B)
OUTPUT / OP 20+ (C)
OUTPUT / OP 20+ (D)
OUTPUT / OP 21+ (A)
OUTPUT / OP 21+ (B)
OUTPUT / OP 21+ (C)
OUTPUT / OP 21+ (D)

PLUG Ji03

HIGHSIDE - LOWSIDE SWITCHED OUTPUTS / GROUND / 12V (1 AMP SUPPLY)

OUTPUT #	FUNCTION
OUTPUT / OP 15-	LOWSIDE DRIVE OUTPUT
OUTPUT / OP 16-	LOWSIDE DRIVE OUTPUT
OUTPUT / OP 22+	HIGHSIDE DRIVE OUTPUT
OUTPUT / OP 23+	HIGHSIDE DRIVE OUTPUT

OUTPUT #	FUNCTION
GROUND	CHASSIS GROUND TERMINAL
12V 1 AMP OP	12 VOLT 1 AMP PROTECTED OUTPUT

PLUG JFRPU 1-2

SWITCH PANEL / CONTROL PANEL CONNECTION POINT

OUTPUT#	FUNCTION
F R 1+	+12 VOLT SUPPLY SWITCH PANEL NUMBER 1
F R 1-	-12 VOLT (GROUND) SUPPLY SWITCH PANEL NUMBER 1
CAN L	CAN LOW
CAN H	CAN HIGH
F R 2+	+12 VOLT SUPPLY SWITCH PANEL NUMBER 2
F R 2-	-12 VOLT (GROUND) SUPPLY SWITCH PANEL NUMBER 2
CAN L	CAN LOW
CAN H	CAN HIGH

HIGHSIDE INPUTS

PLUG JI01

INPUT#	FUNCTION
INPUT / IP 1+	HORN
INPUT / IP 2+	SIDELIGHTS / MARKER LIGHTS
INPUT / IP 3+	IGNITION
INPUT / IP 4+	STOP / BRAKE PEDAL
INPUT / IP 5+	
INPUT / IP 6+	
INPUT / IP 7+	
INPUT / IP 8+	

PLUG JI02

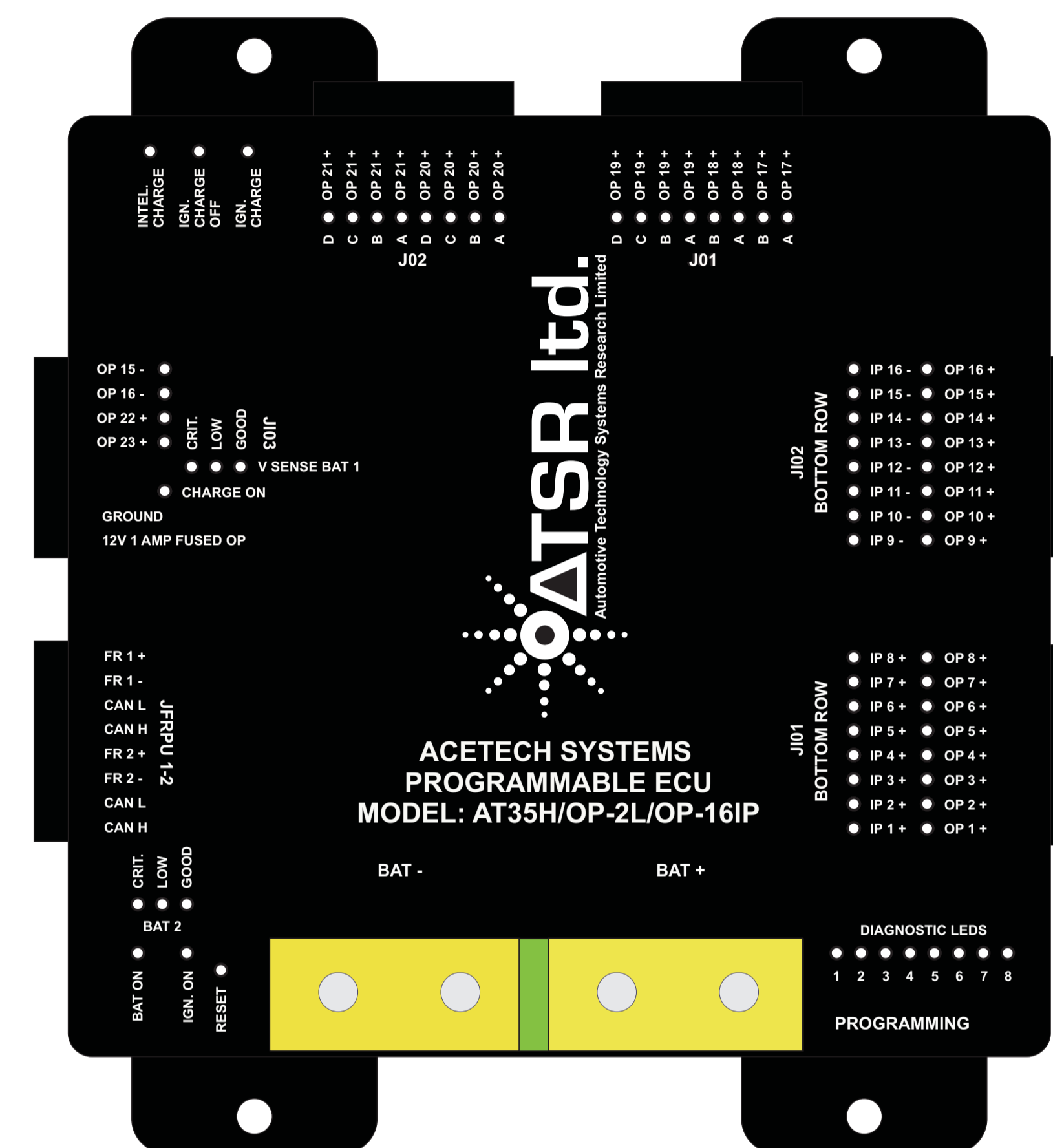
INPUT#	FUNCTION
INPUT / IP 9-	HANDBRAKE
INPUT / IP 10-	REAR DOOR
INPUT / IP 11-	
INPUT / IP 12-	
INPUT / IP 13-	
INPUT / IP 14-	
INPUT / IP 15-	
INPUT / IP 16-	

BATTERY V SENSE - SPLIT CHARGE CONTROL (BATTERY MANAGEMENT)

PLUG Ji03

INPUT#	FUNCTION
V SENSE BATTERY 1	MAIN VEHICLE BATTERY V SENSE
CHARGE ON	OUTPUT TO CHARGE HCM (HIGH CURRENT MODULE)

NOTE:
BATTERIES / BATTERY CONNECTED TO ACETECH ECU
ARE AUTOMATICALLY VOLTAGE SENSED VIA INTERNAL CIRCUITRY)



DRAWN: D O D		DATED: 27/11/08		COMPANY:			
CHECKED:	DATED:	CODE:	SIZE: A 1	TITLE: ECU MODEL AT 35		DRAWING No.:	REV: 1.0
QUALITY CONTROL	DATED:	RELEASED		SCALE:	SHEET 3 OF 3		