Rack ATS AP44•• Modbus Register Map

ATS4g

Release Date: May 2024

TME45997

NOTE: Registers whose data point contains "RESERVED" are reserved for future use.

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
				ATS4g Data Attributes					
Note : All reserved space registers will read 0									
NMC About Parameters									
40001	0000	0		BM_VERSION	8	ASCII		Boot monitor version	ReadOnly
40009	0008	8		AOS_VERSION	8	ASCII		AOS version	ReadOnly
40017	0010	16		APP_VERSION	8	ASCII		APP version	ReadOnly
40025	0018	24		NMC_MODEL_NUMBER	10	ASCII		NMC Model Number	ReadOnly
40035	0022	34		NMC_SERIAL_NUMBER	8	ASCII		NMC Serial Number	ReadOnly
40043	002A	42		NMC_HARDWARE_REVISION	4	ASCII		NMC Hardware revision	ReadOnly
40047	002E	46		NMC_MANUFACTURE_DATE	6	ASCII		NMC Manufacture Date	ReadOnly
40053	0034	52		BM_BUILD_DATE	10	ASCII		Boot monitor Build date	ReadOnly
40063	003E	62		BM_BUILD_TIME	10	ASCII		Boot monitor Build time	ReadOnly
40073	0048	72		AOS_BUILD_DATE	10	ASCII		AOS build date	ReadOnly
40083	0052	82		AOS_BUILD_TIME	10	ASCII		AOS build time	ReadOnly
40093	005C	92		APP_BUILD_DATE	10	ASCII		Application Build date	ReadOnly
40103	0066	102		APP_BUILD_TIME	10	ASCII		Application Build time	ReadOnly
40113	0070	112		NMC_DATABLOCK_RESERVED	100	Integer		Reserved for future use.	ReadOnly
ATS About Parameters									
40213	00D4	212		NAME	125	ASCII		Module Name	ReadOnly
40338	0151	337		LOCATION	125	ASCII		Module Location	ReadOnly
40463	01CE	462		ATS_STATUS	1	ENUM		Module Status 0 - NORMAL 1 - WARNING 2- CRITICAL	ReadOnly
40464	01CF	463		MODEL_NUMBER	10	ASCII		Model Number	ReadOnly
40474	01D9	473		MANUFACTURE_DATE	6	ASCII		Manufacture Date	ReadOnly
40480	01DF	479		SERIAL_NUMBER	8	ASCII		Serial Number	ReadOnly
40488	01E7	487		HARDWARE_REVISION	4	ASCII		Hardware revision	ReadOnly
40492	01EB	491		NUM_PHASES	1	Integer	1	No of Phases	ReadOnly
40493	01EC	492		NUM_CB	1	Integer	1	No of Circuit Breakers	ReadOnly
40494	01ED	493		NUM_OUTLETS	1	Integer	1	No of Outlets	ReadOnly
40495	01EE	494		CONTROLLER_FIRMWARE_VERSION	4	ASCII		Controller Firmware version	ReadOnly
40499	01F2	498		CONTROLLER_FIRMWARE_DATE	6	ASCII		Controller Firmware date	ReadOnly
40505	01F8	504		CONTROLLER_DOWNLOADER_VERSION	4	ASCII		Controller Downloader Version	ReadOnly
40509	01FC	508		ATS_DATABLOCK_RESERVED	100	Integer		Reserved for future use.	ReadOnly

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
ATS Status									
40609	0260	608		SOURCE_A	1	ENUM		Source A status 0 = NOT OK 1 = OK 2 = Selected	ReadOnly
40610	0261	609		SOURCE_B	1	ENUM		Source B status 0 = NOT OK 1 = OK 2 = Selected	ReadOnly
40611	0262	610		PREFERRED_SOURCE	1	ENUM		Preferred source status 0 = Source A 1 = Source B 2 = None	ReadOnly
40612	0263	611		SELECTED_SOURCE	1	ENUM		Selected source status 0 = Source A 1 = Source B	ReadOnly
40613	0264	612		SWITCH_OVER	1	ENUM		Source switch over status 0 = Possible 1 = Not Possible	ReadOnly
40614	0265	613		SOURCE_A_24VDC_POWER_SUPPLY	1	ENUM		Source A 24V DC Power supply status 0 = OK 1 = FAIL	ReadOnly
40615	0266	614		SOURCE_B_24VDC_POWER_SUPPLY	1	ENUM		Source B 24V DC Power supply status 0 = OK 1 = FAIL	ReadOnly
40616	0267	615		SOURCE_A_BOOST_POWER_SUPPLY	1	ENUM		Source A Boost Power supply status 0 = OK 1 = FAIL	ReadOnly
40617	0268	616		SOURCE_B_BOOST_POWER_SUPPLY	1	ENUM		Source B Boost Power supply status 0 = OK 1 = FAIL	ReadOnly
40618	0269	617		DC_POWER_SUPPLY_VOLTAGE_3.3V	1	ENUM		3.3V DC power supply voltage 0 = OK 1 = FAIL	ReadOnly
40619	026A	618		DC_POWER_SUPPLY_VOLTAGE_1.0V	1	ENUM		1.0V DC power supply voltage 0 = OK 1 = FAIL	ReadOnly
40620	026B	619		PHASE_SYNC	1	ENUM		Phase synchronization status 0 = Sync 1 = Out of sync	ReadOnly
40621	026C	620		FRONT_PANEL	1	ENUM		Front panel status 0 = Locked 1 = Unlocked	ReadOnly
40622	026D	621		REDUNDANCY_LOSS_EVENT_COUNT	1	Integer	1	The count of occurrence of redundacy loss since the last reset	ReadOnly
40623	026E	622		SOURCE_SWITCH_EVENT_COUNT	1	Integer	1	The count of occurrence of source switch since the last reset	ReadOnly
40624	026F	623		OVER_CURRENT_EVENT_COUNT	1	Integer	1	The count of occurrence of over current event since the last reset	ReadOnly
40625	0270	624		SOURCE_PREFERENCE_CHANGE_EVENT_COUNT	1	Integer	1	The count of occurrence of source preference change since the last reset	ReadOnly
40626	0271	625		SPIKE/DROP_OUT_EVENT_COUNT	1	Integer	1	The count of occurrence of Spike/Drop out event since the last reset	ReadOnly
40627	0272	626		SURGE/DROOP_EVENT_COUNT	1	Integer	1	The count of occurrence of Surge/Droop event since the last reset	ReadOnly

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
40628	0273	627		FREQUENCY_LOSS_EVENT_COUNT	1	Integer	1	The count of occurrence of frequency loss event since the last reset	ReadOnly
40629	0274	628		SOURCE_A_FREQUENCY	1	Integer	1	Input frequency of source A in Hz	ReadOnly
40630	0275	629		SOURCE_B_FREQUENCY	1	Integer	1	Input frequency of source B in HZ	ReadOnly
40631	0276	630		SOURCE_A_RMS_VOLTAGE	1	Integer	1	Input voltage of source A(Line to neutral) in volts	ReadOnly
40632	0277	631		SOURCE_B_RMS_VOLTAGE	1	Integer	1	Input voltage of source B(Line to neutral) in volts	ReadOnly
40633	0278	632		SOURCE_A_24VDC_POWER_SUPPLY_VOLTAGE	1	Integer	1	Measured value of the 24V power supply voltages of source A in volts	ReadOnly
40634	0279	633		SOURCE_B_24VDC_POWER_SUPPLY_VOLTAGE	1	Integer	1	Measured value of the 24V power supply voltages of source B in volts	ReadOnly
40635	027A	634		SOURCE_A_BOOST_POWER_SUPPLY_VOLTAGE	1	Integer	1	Measured value of the boost voltages of source A in volts	ReadOnly
40636	027B	635		SOURCE_B_BOOST_POWER_SUPPLY_VOLTAGE	1	Integer	1	Measured value of the boost voltages of source B in volts	ReadOnly
40637	027C	636		DC_POWER_SUPPLY_VOLTAGE_3.3V	1	Integer	10	Measured value of internal 3.3V voltage in volts	ReadOnly
40638	027D	637		DC_POWER_SUPPLY_VOLTAGE_1.0V	1	Integer	10	Measured value of internal 1.0V voltage in volts	ReadOnly
40639	027E	638		UNIT_STATUS_DATABLOCK_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Device Configuration									
40739	02E2	738		SOURCE_A_NAME	20	ASCII		Source A Name	ReadOnly
40759	02F6	758		SOURCE_B_NAME	20	ASCII		Source B Name	ReadOnly
40779	030A	778		NOMINAL_LINE_FREQUENCY	1	Integer	1	Nominal line frequency of the ATS in HZ	ReadOnly
40780	030B	779		NOMINAL_LINE_VOLTAGE	1	Integer	1	Nominal source line voltage of the device in volts	ReadOnly
40781	030C	780		FREQUENCY_DEVIATION	1	Integer	1	Range of acceptable frequency fluctuation to the nominal line frequency 3Hz above or below the normal frequency, 5Hz above or below the normal frequency, 10Hz above or below the normal frequency	ReadOnly
40782	030D	781		VOLTAGE_SENSITIVITY	1	ENUM		Sensitivity to change in voltage 0 = High 1 = Low	ReadOnly
40783	030E	782		VOLTAGE_TRANSFER_RANGE	1	ENUM		Range of acceptable voltage from power source 0 = Wide 1 = Medium 2 = narrow	ReadOnly
40784	030F	783		NARROW_VOLTAGE_TRANSFER_LIMIT	1	Integer	1	Voltage transfer limit is set to narrow in volts	ReadOnly
40785	0310	784		MEDIUM_VOLTAGE_TRANSFER_LIMIT	1	Integer	1	Voltage transfer limit is set to medium in volts	ReadOnly
40786	0311	785		WIDE_VOLTAGE_TRANSFER_LIMIT	1	Integer	1	Voltage transfer limit is set to wide in volts	ReadOnly
40787	0312	786		RATED_LOAD	1	Integer	1	Rated Current in amps	ReadOnly
40788	0313	787		OUTPUT_APPARENT_POWER	1	Integer	100	Total Output apparent power measured in kVA	ReadOnly
40789	0314	788		DEV_CONFIG_RESERVED	100	Integer		Reserved for future use.	ReadOnly

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
Load Configuration Phase1 (Bank 1)									
Note: If no banks are present, Bank 1 parameters will read -1									
40889	0378	888		LOAD_STATE_P1_B1	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
40890	0379	889		OUTPUT_CURRENT_P1_B1	1	Integer	10	Device output current in amps	ReadOnly
40891	037A	890		PEAK_CURRENT_P1_B1	1	Integer	10	Peak load current in amps	ReadOnly
40892	037B	891		PEAK_CURRENT_CAPTURE_TIME_P1_B1	11	ASCII		Peak Current Capture Time	ReadOnly
40903	0386	902		LOW_LOAD_ALARM_THRESHOLD_P1_B1	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
40904	0387	903		NEAR_OVERLOAD_ALARM_THRESHOLD_P1_B1	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
40905	0388	904		OVERLOAD_ALARM_THRESHOLD_P1_B1	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
40906	0389	905		DEV_CONFIG_P1_B1_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Load Configuration Phase1 (Bank 2)									
Note: If no banks are present, Bank 2 parameters will read -1									
41006	03ED	1005		LOAD_STATE_P1_B2	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41007	03EE	1006		OUTPUT_CURRENT_P1_B2	1	Integer	10	Device output current in amps	ReadOnly
41008	03EF	1007		PEAK_CURRENT_P1_B2	1	Integer	10	Peak load current in amps	ReadOnly
41009	03F0	1008		PEAK_CURRENT_CAPTURE_TIME_P1_B2	11	ASCII		Peak Current Capture Time	ReadOnly
41020	03FB	1019		LOW_LOAD_ALARM_THRESHOLD_P1_B2	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41021	03FC	1020		NEAR_OVERLOAD_ALARM_THRESHOLD_P1_B2	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41022	03FD	1021		OVERLOAD_ALARM_THRESHOLD_P1_B2	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41023	03FE	1022		DEV_CONFIG_P1_B2_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Load Configuration Phase1 (total)									
41123	0462	1122		LOAD_STATE_P1_TOTAL	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41124	0463	1123		OUTPUT_CURRENT_P1_TOTAL	1	Integer	10	Device output current in amps	ReadOnly
41125	0464	1124		PEAK_CURRENT_P1_TOTAL	1	Integer	10	Peak load current in amps	ReadOnly
41126	0465	1125		PEAK_CURRENT_START_TIME_P1_TOTAL	11	ASCII		Output Peak Current Reset Time	ReadOnly
41137	0470	1136		PEAK_CURRENT_CAPTURE_TIME_P1_TOTAL	11	ASCII		Peak Current Capture Time	ReadOnly
41148	047B	1147		LOW_LOAD_ALARM_THRESHOLD_P1_TOTAL	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41149	047C	1148		NEAR_OVERLOAD_ALARM_THRESHOLD_P1_TOTAL	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41150	047D	1149		OVERLOAD_ALARM_THRESHOLD_P1_TOTAL	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41151	047E	1150		DEV_CONFIG_P1_TOTAL_RESERVED	100	Integer		Reserved for future use.	ReadOnly

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
Load Configuration Phase2(Bank 1) - RESERVED									
41251	04E2	1250		LOAD_STATE_P2_B1	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41252	04E3	1251		OUTPUT_CURRENT_P2_B1	1	Integer	10	Device output current in amps	ReadOnly
41253	04E4	1252		PEAK_CURRENT_P2_B1	1	Integer	10	Peak load current in amps	ReadOnly
41254	04E5	1253		PEAK_CURRENT_CAPTURE_TIME_P2_B1	11	ASCII		Peak Current Capture Time	ReadOnly
41265	04F0	1264		LOW_LOAD_ALARM_THRESHOLD_P2_B1	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41266	04F1	1265		NEAR_OVERLOAD_ALARM_THRESHOLD_P2_B1	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41267	04F2	1266		OVERLOAD_ALARM_THRESHOLD_P2_B1	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41268	04F3	1267		DEV_CONFIG_P2_B1_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Load Configuration Phase2 (Bank 2) - RESERVED									
41368	0557	1367		LOAD_STATE_P2_B2	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41369	0558	1368		OUTPUT_CURRENT_P2_B2	1	Integer	10	Device output current in amps	ReadOnly
41370	0559	1369		PEAK_CURRENT_P2_B2	1	Integer	10	Peak load current in amps	ReadOnly
41371	055A	1370		PEAK_CURRENT_CAPTURE_TIME_P2_B2	11	ASCII		Peak Current Capture Time	ReadOnly
41382	0565	1381		LOW_LOAD_ALARM_THRESHOLD_P2_B2	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41383	0566	1382		NEAR_OVERLOAD_ALARM_THRESHOLD_P2_B2	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41384	0567	1383		OVERLOAD_ALARM_THRESHOLD_P2_B2	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41385	0568	1384		DEV_CONFIG_P2_B2_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Load Configuration Phase2 (total) - RESERVED									
41485	05CC	1484		LOAD_STATE_P2_TOTAL	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41486	05CD	1485		OUTPUT_CURRENT_P2_TOTAL	1	Integer	10	Device output current in amps	ReadOnly
41487	05CE	1486		PEAK_CURRENT_P2_TOTAL	1	Integer	10	Peak load current in amps	ReadOnly
41488	05CF	1487		PEAK_CURRENT_START_TIME_P2_TOTAL	11	ASCII		Output Peak Current Reset Time	ReadOnly
41499	05DA	1498		PEAK_CURRENT_CAPTURE_TIME_P2_TOTAL	11	ASCII		Peak Current Capture Time	ReadOnly
41510	05E5	1509		LOW_LOAD_ALARM_THRESHOLD_P2_TOTAL	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41511	05E6	1510		NEAR_OVERLOAD_ALARM_THRESHOLD_P2_TOTAL	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41512	05E7	1511		OVERLOAD_ALARM_THRESHOLD_P2_TOTAL	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41513	05E8	1512		DEV_CONFIG_P2_TOTAL_RESERVED	100	Integer		Reserved for future use.	ReadOnly

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
Load Configuration Phase3 (Bank 1) - RESERVED									
41613	064C	1612		LOAD_STATE_P3_B1	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41614	064D	1613		OUTPUT_CURRENT_P3_B1	1	Integer	10	Device output current in amps	ReadOnly
41615	064E	1614		PEAK_CURRENT_P3_B1	1	Integer	10	Peak load current in amps	ReadOnly
41616	064F	1615		PEAK_CURRENT_CAPTURE_TIME_P3_B1	11	ASCII		Peak Current Capture Time	ReadOnly
41627	065A	1626		LOW_LOAD_ALARM_THRESHOLD_P3_B1	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41628	065B	1627		NEAR_OVERLOAD_ALARM_THRESHOLD_P3_B1	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41629	065C	1628		OVERLOAD_ALARM_THRESHOLD_P3_B1	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41630	065D	1629		DEV_CONFIG_P3_B1_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Load Configuration Phase3 (Bank 2) - RESERVED									
41730	06C1	1729		LOAD_STATE_P3_B2	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41731	06C2	1730		OUTPUT_CURRENT_P3_B2	1	Integer	10	Device output current in amps	ReadOnly
41732	06C3	1731		PEAK_CURRENT_P3_B2	1	Integer	10	Peak load current in amps	ReadOnly
41733	06C4	1732		PEAK_CURRENT_CAPTURE_TIME_P3_B2	11	ASCII		Peak Current Capture Time	ReadOnly
41744	06CF	1743		LOW_LOAD_ALARM_THRESHOLD_P3_B2	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41745	06D0	1744		NEAR_OVERLOAD_ALARM_THRESHOLD_P3_B2	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41746	06D1	1745		OVERLOAD_ALARM_THRESHOLD_P3_B2	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41747	06D2	1746		DEV_CONFIG_P3_B2_RESERVED	100	Integer		Reserved for future use.	ReadOnly
Load Configuration Phase3 (total) - RESERVED									
41847	0736	1846		LOAD_STATE_P3_TOTAL	1	ENUM		Load Status 1 = Low Load 2 = Normal Load 3 = Near Overload 4 = Overload	ReadOnly
41848	0737	1847		OUTPUT_CURRENT_P3_TOTAL	1	Integer	10	Device output current in amps	ReadOnly
41849	0738	1848		PEAK_CURRENT_P3_TOTAL	1	Integer	10	Peak load current in amps	ReadOnly
41850	0739	1849		PEAK_CURRENT_START_TIME_P3_TOTAL	11	ASCII		Output Peak Current Reset Time	ReadOnly
41861	0744	1860		PEAK_CURRENT_CAPTURE_TIME_P3_TOTAL	11	ASCII		Peak Current Capture Time	ReadOnly
41872	074F	1871		LOW_LOAD_ALARM_THRESHOLD_P3_TOTAL	1	Integer	1	Threshold for Low Load Warning in amps	ReadOnly
41873	0750	1872		NEAR_OVERLOAD_ALARM_THRESHOLD_P3_TOTAL	1	Integer	1	Threshold for Near overload Warning in amps	ReadOnly
41874	0751	1873		OVERLOAD_ALARM_THRESHOLD_P3_TOTAL	1	Integer	1	Threshold for overload Warning in amps	ReadOnly
41875	0752	1874		DEV_CONFIG_P3_TOTAL_RESERVED	100	Integer		Reserved for future use.	ReadOnly

Modicon Standard Register Number	Absolute Starting Register Number, (Hexadecimal)	Absolute Starting Register Number, (Decimal)	Bit	Data Point	length # registers	Data Type	Scale (Divide Reading By)	Description	Permission
ALARMS									
Note: (0 - Alarm not present, 1 - Alarm Present)									
41975	07B6	1974		LOST_REDUNDANCY	1	BOOLEAN		Automatic Transfer Switch: ATS has lost redundancy.	ReadOnly
41976	07B7	1975		SOURCE_FAULT_SOURCE_A	1	BOOLEAN		Automatic Transfer Switch: Source fault exists on source A	ReadOnly
41977	07B8	1976		SOURCE_FAULT_SOURCE_B	1	BOOLEAN		Automatic Transfer Switch: Source fault exists on source B	ReadOnly
41978	07B9	1977		OVER_VOLTAGE_VIOLATION_A	1	BOOLEAN		Automatic Transfer Switch: Over voltage violation on source A	ReadOnly
41979	07BA	1978		OVER_VOLTAGE_VIOLATION_B	1	BOOLEAN		Automatic Transfer Switch: Over voltage violation on source B	ReadOnly
41980	07BB	1979		UNDER_VOLTAGE_VIOLATION_A	1	BOOLEAN		Automatic Transfer Switch: Under voltage violation on source A	ReadOnly
41981	07BC	1980		UNDER_VOLTAGE_VIOLATION_B	1	BOOLEAN		Automatic Transfer Switch: Under voltage violation on source B	ReadOnly
41982	07BD	1981		OVER_FREQUENCY_VIOLATION_A	1	BOOLEAN		Automatic Transfer Switch: Over frequency violation on source A	ReadOnly
41983	07BE	1982		OVER_FREQUENCY_VIOLATION_B	1	BOOLEAN		Automatic Transfer Switch: Over frequency violation on source B	ReadOnly
41984	07BF	1983		UNDER_FREQUENCY_VIOLATION_A	1	BOOLEAN		Automatic Transfer Switch: Under frequency violation on source A	ReadOnly
41985	07C0	1984		UNDER_FREQUENCY_VIOLATION_B	1	BOOLEAN		Automatic Transfer Switch: Under frequency violation on source B	ReadOnly
41986	07C1	1985		SWITCH_RELAY_MALFUNCTIONED	1	BOOLEAN		Automatic Transfer Switch: Switch relay malfunctioned	ReadOnly
41987	07C2	1986		OPEN_FUSE_SOURCE_A	1	BOOLEAN		Automatic Transfer Switch: Possible open fuse source A	ReadOnly
41988	07C3	1987		OPEN_FUSE_SOURCE_B	1	BOOLEAN		Automatic Transfer Switch: Possible open fuse source B	ReadOnly
41989	07C4	1988		CHASSIS_TEMP_THRESHOLD_EXCEEDED	1	BOOLEAN		Automatic Transfer Switch: Chassis temperature has exceeded threshold.	ReadOnly