Additel761 Series Firmware Updates

APC V01.XX		
Version	Updates	Note
Vertions before APC V01.03(Included)	No records	If the units production date is before 2011 for ADT761-D or ADT761-L, then they need to be sent back for updating.
APC V01.04	1.Added multiple language	
APC V01.05	2. Fixed the bug that the pressure range of internal pressure mudole is incorrectly displayed. 1. Added the prompt information when auto zeroing is failed.	
APC V01.06	2. Added the pressure transmitter calibration range to 0~10V. 1. Fixed the code bugs of reading mechanical gauge tasks and deleting tasks.	_
	Added the Intake pressure auto zeroing funtion when start the unit.	
APC V01.07	2. Forbided the auto venting funtion when calibrate the pressure switch by task.	
	1. Solved the problem of some units cannot do the self tuning after changed the driver board.	
APC V01.08	2. Solved the problem of the pressure control at -95kPa is not stable.	
	1. Supported the absolute pressure function.	
	2. Added the atmosphere pressure display and calibrating functions.	
	3. Added the customer calibration function for the intake pressure sensor.	
APC V01.09	4. Added the tasks memories to 200 and screen shot memories to 900.	
	5. Added the inverse strike calibration operation.	
	6. Added the as found and as left process.	
	7. Added some serial port command.	
APC V01.10	1. Solved the problem of the pressure generating is abnormal for 400kPa pressure sensor after the firmware updated to APC V01.09 for 761-D and 761-L.	
	2. Fixed the bug that the engineering units are not correct when connectted external pressure module.	
APC V01.11	Not released officially	
APC V01.12	Not released officially	
A DO VIO 4 4 2	1. Fixed the language missing problem.	
APC V01.13	2. Added to support the V6 and V7 of HART protocol, refactored some HART adjustment functions, added the sensor trim funtion and supported the	
APC V01.14	updatings of HART DD files. Not released officially	
APC VU1.14		
	 Added the range setting, manually speed regulation and pressure control rate for Switch task. Added the setting to choose if auto zeroing pressure. 	
	3. Added the inlet pressure faulties test and displying the fault code.	ADT761-L or ADT761-D
APC V01.15	4. Added the reading units recognization for internal pressure modules and the converting of the readings.	
	5. Amended the datas reception mechanism for HART protocal stack.	The Versions before V01.20 could be updated to V01.20 with th
	6. Derease the filter coefficient of the pressure displaying.	Additel/terminal
	1. Fixed the bug that when start the HART, the system response will be delayed when controling pressure.	
	2. Fixed the bug that when doing the HART sensor trim, the pressure units converting are incorrect which will cause the faulty of sensor trim.	
	3. Added the codes of modifying the internal pressure module communication baud rate.	
APC V01.16	4. Added the factory calibration funtion for pressure modules.	These are all the old versions, if customers' units have problem,
	5. Changed the Flash driver to be compatible with the new flash chip.	it's recommended to be sent back for hardware upgrading.
	6. Refactored the corresponding relations between the products models and firmware versions.	For ADT761-D, should be upgraded to the version after APC
	7. Added the hardware version information in the " Products information" section.	V04.06.
	1. Added the runnging log record funtion to record the realtime data to support the diagnoses.	For ADT761-L/LA, should be upgraded to the version after APC
	2. Added the instruction starting up mode when use the adaptor to supply power.	V05.06
APC V01.17	3. Fixed the bug of promoting information error judgment when there is leakage problems.	
	4. Changed the setting to close solenoid valve between pump and air chamber when the pump is stop, to avoid the pump repetitively restarting if there is	
	leakage happened.	

	1.Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing.
	2. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the
APC V01.18	Rosemount transducer pressure sensor calibration.
	3. Altered the ADT761-D/L pump starting control mode to stoped the pump when the inlet pressue is stable, to prevent the faulties casused by the
	mismeasurement of Inlet pressure sensor. And shortened the starting time of ADT761-L/D/M, by canceling the inlet pressure measurement zeroing.
	4. Fixed the the problem of the pump will continuously start and stop if the the external chamber is too big, the control mode is changed to whne the
	pressure is approaching the desired point the pump will be stoped.
	5. Extended hte zeroing time from 6s to 12s.
	1.Altered the fine adjust mode from reverse calibration control to setting points control, and improved the fine adjust and pressure controling.
APC V01.19	2. Added some serial commands for D/A Trim, Zero Trim of Hart.
	3. Fixed the problem that when doing the differential pressure tasks, if not used the absolute pressure mode, the settings on set point cannot be stored.
	1. Altered the CPV commands, added the command parameter"1" to go back to main interface.
APC V01.20	2. Added the optional width of 4 for eaternal pressure module display.
	3. Fixed the bug that the Absolute pressure setting is dispeared, and altered the swtich damping time from [0.1, 99] to [0.1, 20]
	4. Added special processes for E+H Deltabar S and Cerabar S sensor calibration commands, for supporting their tansducer's sensor calibration.
APC V01.21	1. Fixed the bug that the stability parameters was mistakenly changed in the event of abnormal auto-tuning.
	1. Increases the battery fault tips.
APC V01.22	2. Increase the battery voltage chip diagnostic functions.
	3. Fixed the bug that the instructions of "R: OALLCTRLDATA" and "W: OHARTPARASET" executed error.
	4. Fixed the bug that the boot progress bar displays not right.
APC V01.23	1. Fixed a problem that the transmitter often disconnected when Communication with some type of HART transmitters.
APC V01.24	1. Fixed the bug that the reconnection mechanism does not work well when the internal module is not connected.
	2.Adjust the automation running parameters of the pressure switch task to reduce test time.
	1. Add prompt when battery voltage is abnormal;
	2. Add the software watchdog;
	3. Modify the HART underlying transceiver delay mechanisms to improve the compatibility of HART devices;
APC V01.25	4. Add Zeroing prohibition for External absolute pressure module;
	5. Add support for pressure units mH2O;
	6. Solve the problem of the loss of calibration data models when the internal pressure module calibration;

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Version	Updates	
APC V02.00	1.Added multiple language	
APC V02.00	2. Fixed the bug that the pressure range of internal pressure mudole is incorrectly displayed.	
APC V02.01	1. Added the prompt information when auto zeroing is failed.	
AI C V02.01	2. Added the pressure transmitter calibration range to 0~10V.	
	1. Fixed the code bugs of reading mechanical gauge tasks and deleting tasks.	
APC V02.02	2. Fixed the bug that sometimes cannot set -90kPa point on 761-M.	
	3. Fixed the bug that inlet pressure calibration is incorrect and caused the vacuum control is abnormal.	
APC V02.03	1. Added the Intake pressure auto zeroing funtion when start the unit.	
AI C V02.03	2. Forbided the auto venting funtion when calibrate the pressure switch by task.	
	1. Supported the absolute pressure function.	
	2. Added the atmosphere pressure display and calibrating functions.	
	3. Added the customer calibration function for the intake pressure sensor.	
APC V02.04	4. Added the tasks memories to 200 and screen shot memories to 900.	
	5. Added the inverse strike calibration operation.	
	6. Added the as found and as left process.	
	7. Added some serial port command.	
APC V02.05	1. Fixed the bug that the displaying unit is abnormal when connect with external pressure modules.	
APC V02.06	Not released officially	
	1. Fixed the language missing problem.	
APC V02.07	2. Added to support the V6 and V7 of HART protocol, refactored some HART adjustment functions, added the sensor trim funtion and supported the	
	updatings of HART DD files.	
APC V02.08	Not released officially	

Note

	1. Added the range setting, manually speed regulation and pressure control rate for Switch task.	
	2. Added the setting to choose if auto zeroing pressure.	
	3. Added the inlet pressure faulties testing and displying the fault code functions.	
APC V02.09	4. Added the reading units recognization for internal pressure modules and the converting of the readings.	
	5. Amended the datas reception mechanism of HART protocal stack.	
	6. Derease the filter coefficient of the pressure displaying.	
	1. Fixed the bug that when start the HART, the system response will be delayed when controling pressure.	
	2. Fixed the bug that when doing the HART sensor trim, the pressure units converting are incorrect which will cause the faulty of sensor trim.	
	3. Added the codes of modifying the internal pressure module communication band rate.	Use Additel/terminal to update the ADT761-M/MA
APC V02.10	4. Added the factory calibration funtion for pressure modules.	
AI C V02.10	5. Changed the Flash driver to be compatible with the new flash chip.	Units with hardware version V02.XX are all the old structure
	· · · · · · · · · · · · · · · · · · ·	before 2013.
	6. Refactored the corresponding relations between the products models and firmware versions. 7. Added the hardware version information in the "Products information" section.	After 2013, the hardware versions are V05.XX.
	1. Added the runnging log record funtion to record the realtime data to support the diagnoses.	
	2. Added the instruction starting up mode when use the adaptor to supply power.	
APC V02.11	3. Fixed the bug of promoting information incorrect judgment when there is leakage problems.	
AFC V02.11		
	4. Changed the setting to close solenoid valve between pump and air chamber when the pump is stop, to avoid the pump repetitively restarting if there is	
	leakage happened. 1.Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing.	-
	2. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the	
	Rosemount transducer pressure sensor calibration.	
	3. Altered the ADT761-D/L pump starting control mode to stoped the pump when the inlet pressue is stable, to prevent the faulties casused by the	
APC V02.12		
	mismeasurement of Inlet pressure sensor. And shortened the starting time of ADT761-L/D/M, by canceling the inlet pressure measurement zeroing.	
	4. Fixed the the problem of the pump will continuously start and stop if the the external chamber is too big, the control mode is changed to whne the	
	pressure is approaching the desired point the pump will be stoped.	
	5. Extended hte zeroing time from 6s to 12s. 1. Altered the fine adjust mode from reverse calibration control to setting points control, and improved the fine adjust and pressure control modes.	_
APC V02.13	2. Added some serial commands for D/A Trim, Zero Trim of Hart.	
AFC V02.13		
	3. Fixed the problem that when doing the differential pressure tasks, if not used the absolute pressure mode, the settings on set point cannot be stored. 1. Altered the CPV commands, added the command parameter "1" to go back to main interface.	
	2. Added the optional width of 4 for eaternal pressure module display.	
APC V02.14	3. Fixed the bug that the Absolute pressure setting is dispeared, and altered the swtich damping time from [0.1, 99] to [0.1, 20]	
	4. Added special processes for E+H Deltabar S and Cerabar S sensor calibration commands, for supporting their tansducer's sensor calibration.	
APC V02.15	1. Fixed the bug that the stability parameters was mistakenly changed in the event of abnormal auto-tuning.	
	1. Increases the battery fault tips.	
	2. Increase the battery voltage chip diagnostic functions.	
APC V02.16	3. Fixed the bug that the instructions of "R: OALLCTRLDATA" and "W: OHARTPARASET" executed error.	
APC V02.17	4. Fixed the bug that the boot progress bar displays not right.1. Fixed a problem that the transmitter often disconnected when Communication with some type of HART transmitters.	-
AFC VUZ.17	1. Fixed a problem that the transmitter often disconnected when communication with some type of HAKT transmitters. 1. Fixed the bug that the reconnection mechanism does not work well when the internal module is not connected.	-
APC V02.18	2. Adjust the automation running parameters of the pressure switch task to reduce test time.	
	2. Add prompt when battery voltage is abnormal;	
	2. Add the software watchdog;	
	3. Modify the HART underlying transceiver delay mechanisms to improve the compatibility of HART devices;	
APC V02.19		
	4. Add zeroing prohibition for External absolute pressure module;	
	5. Add support for pressure units mH2O; 6. Solve the problem of the loss of solibration data models when the internal pressure module solibration.	
	6. Solve the problem of the loss of calibration data models when the internal pressure module calibration;	
C V03.XX		
Version	Updates	Note
APC V03.00		Use the Additel/Terminal to update the ADT761-BP
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C V04.XX		
NOA WY		
	6. Solve the problem of the loss of calibration data models when the internal pressure module calibration;	
	5. Add support for pressure units mH2O; 6. Solve the problem of the loss of collegation data models when the integral pressure module collegation.	
	4. Add Zeroing prohibition for External absolute pressure module;	
APC V03.16	3. Modify the HART underlying transceiver delay mechanisms to improve the compatibility of HART devices;	
	2. Add the software watchdog;	
	1. Add prompt when battery voltage is abnormal;	
ALC 103.13	2.Adjust the automation running parameters of the pressure switch task to reduce test time.	
APC V03.15	1. Fixed the bug that the reconnection mechanism does not work well when the internal module is not connected.	
APC V03.14	1. Fixed a problem that the transmitter often disconnected when Communication with some type of HART transmitters.	
	4. Fixed the bug that the density of gas proportional to the pressure does not consider in the calculation of the Gas Head Correction.	
APC V03.13	3. Fixed the bug that the instructions of ""R: OALLCTRLDATA"" and ""W: OHARTPARASET"" executed error.	
ADC 1/02 42	2. Increase the battery voltage chip diagnostic functions.	
	1. Increases the battery fault tips.	
APC V03.12	1. Fixed the bug that the stability parameters was mistakenly changed in the event of abnormal auto-tuning.	
APC V03.11	Changed the valves controling mode	
	4. Added special processes for E+H Deltabar S and Cerabar S sensor calibration commands, for supporting their tansducer's sensor calibration.	
APC V03.10	3. Fixed the bug that the Absolute pressure setting is dispeared, and altered the swtich damping time from [0.1, 99] to [0.1, 20]	APC-HP V03.03.03.04 and APC-HP V03.04.03.04
ADC 1/02 10	2. Added the optional width of 4 for eaternal pressure module display.	Added the firmware versions of
	1. Altered the CPV commands, added the command parameter"1" to go back to main interface.	
	normally.	
APC V03.09	3. Fixed the problem that when doing the differential pressure tasks, if not used the absolute pressure mode, the settings on set point cannot be stored	
	2. Added some serial commands for D/A Trim, Zero Trim of Hart.	
	5. Extended hte zeroing time from 6s to 12s. 1.Altered the fine adjust mode from reverse calibration control to setting points control, and improved the fine adjust operation and pressure controling.	
	pressure is approaching the desired point the pump will be stoped.	
	4. Fixed the the problem of the pump will continuously start and stop if the the external chamber is too big, the control mode is changed to while the process is approaching the desired point the pump will be stoped.	
	mismeasurement of Inlet pressure sensor. And shortened the starting time of ADT761-L/D/M, by canceling the inlet pressure measurement zeroing. 4. Fixed the the problem of the numb will continuously start and stop if the external chamber is too big, the control mode is changed to whom the	
APC V03.08	3. Altered the ADT761-D/L pump starting control mode to stoped the pump when the inlet pressue is stable, to prevent the faulties casused by the	
	Rosemount transducer pressure sensor calibration. 3. Altered the ADT761-D/L nump starting control mode to stoned the nump when the inlet pressure is stable, to prevent the faulties casused by the	
	2. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the	
	leakage happened. 1. Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing.	
AI C VU3.07	4. Changed the setting to close solenoid valve between pump and air chamber when the pump is stop, to avoid the pump repetitively restarting if there is	To use the Additery reminial to appare.
APC V03.07	2. Added the instruction starting up mode when use the adaptor to supply power. 3. Fixed the bug of promoting information error judgment when there is leakage problems.	To use the Additel/Terminal to update.
	1. Added the runnging log record funtion to record the realtime data to support the diagnoses.	
	7. Added the hardware version information in the "Products information" section.	
	6. Refactored the corresponding relations between the products models and firmware versions.	
	5. Changed the Flash driver to be compatible with the new flash chip.	
APC V03.06	4. Added the factory calibration funtion for pressure modules.	V02.04.03.02)
ADC 1/02 0C	3. Added the codes of modifying the internal pressure module communication baud rate.	Added the firmware program of APC V03.05 (APC-BP
	2. Fixed the bug that when doing the HART sensor trim, the pressure units converting are incorrect which will cause the faulty of sensor trim.	
	1. Fixed the bug that when start the HART, the system response will be delayed when controling pressure.	
	6. Derease the filter coefficient of the pressure displaying.	
	5. Amended the datas reception mechanism for HART protocal stack.	
	4. Added the internal pressure modules units recognizing and reading convertion functions.	
APC V03.05	3. Added the inlet pressure faults testing funtion and fault codes displaying.	
	2. Added the setting to choose if auto zeroing pressure.	
	1. Added the range setting for pressure switch tasks, and added the manually adjust rate and control rate.	
APC V03.04	Not released officially	
	updatings of HART DD files.	
, ii C 105.05	2. Added to support the V6 and V7 of HART protocol, refactored some HART adjustment functions, added the sensor trim funtion and supported the	
APC V03.03		

APC V04.00		Use the Additel/Terminal to update the ADT761-LLP or ADT761-D
APC V04.01	No records	
APC V04.02	No records	
	1. Fixed the language missing problem.	
APC V04.03	2. Added to support the V6 and V7 of HART protocol, refactored some HART adjustment functions, added the sensor trim funtion and supported the	
	updatings of HART DD files.	
APC V04.04	Not released officially	
	1. Added the range setting for pressure switch tasks, and added the manually adjust rate and control rate.	
	2. Added the setting to choose if auto zeroing pressure.	
	3. Added the inlet pressure faults testing funtion and fault codes displaying.	
	4. Added the internal pressure modules units recognizing and reading convertion functions.	
APC V04.05		
AI C VO4.03	5. Amended the datas reception mechanism for HART protocal stack.	
	6. Solved a setting problem of 761-LLP that setpoint 1 inH2O will change to 0.999999 automatically.	
	7. Improved the pressure stable speed of 761-LLP, and limited its min fluctuation to 0.05Pa, and altered to control zero point from just venting to	
	atomosphere.	
	8. Derease the filter coefficient of the pressure displaying.	
	1. Fixed the bug that when start the HART, the system response will be delayed when controlling pressure.	
	2. Fixed the bug that when doing the HART sensor trim, the pressure units converting are incorrect which will cause the faulty of sensor trim.	
	3. Added the codes of modifying the internal pressure module communication baud rate.	Refactored the prodcuts models and firmware versions.
APC V04.06	4. Added the factory calibration funtion for pressure modules.	Added the firmware version of APC V04.06 (APC-LLP
	5. Changed the Flash driver to be compatible with the new flash chip.	V02.04.03.02)
	6. Refactored the corresponding relations between the products models and firmware versions.	
	7. Added the hardware version information in the " Products information" section.	
APC V04.07	N/A	Use Additel/Terminal to update.
	1. Added the runnging log record funtion to record the realtime data to support the diagnoses.	
	2. Added the instruction starting up mode when use the adaptor to supply power.	
APC V04.08	3. Fixed the bug of promoting information error judgment when there is leakage problems.	
	4. Changed the setting to close solenoid valve between pump and air chamber when the pump is stop, to avoid the pump repetitively restarting if there is	
	leakage happened.	
APC V04.09	1. Fixed the problem that the customed 250kPa module have inlet pressure abnormal misdeclaration.	
	1.Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing.	
	2. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the	
	Rosemount transducer pressure sensor calibration.	
	3. Altered the ADT761-D/L pump starting control mode to stoped the pump when the inlet pressue is stable, to prevent the faulties casused by the	
APC V04.10	mismeasurement of Inlet pressure sensor. And shortened the starting time of ADT761-L/D/M, by canceling the inlet pressure measurement zeroing.	
	4. Fixed the the problem of the pump will continuously start and stop if the the external chamber is too big, the control mode is changed to while the	
	pressure is approaching the desired point the pump will be stoped.	
	5. Extended the zeroing time from 6s to 12s.	
	6. Altered the codes of 761-LLP to make it compatiable to the 250kPa high pressure custom made models. 1. Altered the fine adjust mode from reverse calibration control to setting points control, and improved the fine adjust operation and pressure controling.	
APC V04.11	2.Added some serial commands for D/A Trim, Zero Trim of Hart.	
	3. Fixed the problem that when doing the differential pressure tasks, if not used the absolute pressure mode, the settings on set point cannot be stored	
	normally. 1. Altered the CRV commands added the command parameter "1" to go had/ to main interface.	
	1. Altered the CPV commands, added the command parameter"1" to go back to main interface.	Added hardware versions ADC LID VO2 C2 C2 C4 and ADC LID
APC V04.12	2. Added the optional width of 4 for eaternal pressure module display.	Added hardware versions APC-HP V03.03.03.04 and APC-HP
	3. Fixed the bug that the Absolute pressure setting is dispeared, and altered the swtich damping time from [0.1, 99] to [0.1, 20]	V03.04.03.04
	4. Added special processes for E+H Deltabar S and Cerabar S sensor calibration commands, for supporting their tansducer's sensor calibration.	
APC V04.13	Altered the Self-tune parameter range, to prevent the misdeclaration.	
APC V04.14	1. Fixed the bug that the stability parameters was mistakenly changed in the event of abnormal auto-tuning.	
	1. Increases the battery fault tips.	
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APC V04.15	2. Increase the battery voltage chip diagnostic functions.	

ADC VO4 16	1. Fixed a problem that the transmitter often disconnected when Communication with some type of HART transmitters.	
APC V04.16	2. Fixed the bug that the decimals of the data displayed in the test process and test results are incorrect when using the Pa unit in the pressure transmitter	
	task.	
APC V04.17	N/A	
	1. Fixed the bug that the reconnection mechanism does not work well when the internal module is not connected.	
APC V04.18	2.Adjust the automation running parameters of the pressure switch task to reduce test time.	
	3. Increased inH2O@ 4℃、mmH2O@ 4℃ and hPa Units in HART;	
APC V04.19	N/A	
	1. Add prompt when battery voltage is abnormal;	
	2. Add the software watchdog;	
ADC V04 30	3. Modify the HART underlying transceiver delay mechanisms to improve the compatibility of HART devices;	
APC V04.20	4. Add Zeroing prohibition for External absolute pressure module;	
	5. Add support for pressure units mH2O;	
	6. Solve the problem of the loss of calibration data models when the internal pressure module calibration;	
PC V05.XX		
Version	Updates	Note
APC V05.00		Use the Additel/Terminal to update ADT761-L/LA/M/MA/H/H/
APC V05.01	No records	
APC V05.02	Not released officially	1
	1.Solved the language missing problem.	1
APC V05.03	2.Added to support the V6 and V7 of HART protocol, refactored some HART adjustment functions, added the sensor trim funtion and supported the	
	updatings of HART DD files.	
APC V05.04	Not released officially	
	1. Added the range setting for pressure switch tasks, and added the manually adjust rate and control rate.	-
	2. Added the setting to choose if auto zeroing pressure.	
	3. Added the inlet pressure faults testing funtion and fault codes displaying.	
APC V05.05	4. Added the internal pressure modules units recognizing and reading convertion functions.	
	5. Amended the datas reception mechanism for HART protocal stack.	
	6. Derease the filter coefficient of the pressure displaying.	
	1. Fixed the bug that when start the HART, the systerm response will be delayed when controling pressure.	
	2. Fixed the bug that when doing the HART sensor trim, the pressure units converting are incorrect which will cause the faulty of sensor trim.	
	3. Added the codes of modifying the internal pressure module communication baud rate.	
APC V05.06	4. Added the factory calibration funtion for pressure modules.	V02.04.03.04。
711 C V05.00	5. Changed the Flash driver to be compatible with the new flash chip.	Refactored the products models and firmware versions.
	6. Refactored the corresponding relations between the products models and firmware versions.	
APC V05.07	7. Added the hardware version information in the " Products information" section. N/A	Use Additel/Terminal to update ADT761-L/LA/M/MA/H/HA
711 C VOS.07	1. Added the runnging log record funtion to record the realtime data to support the diagnoses.	ose realitely reminal to apacter 15 17 of 27 27 37 17 17 17 17
	2. Added the instruction starting up mode when use the adaptor to supply power.	
	3. Fixed the bug of promoting information error judgment when there is leakage problems.	
APC V05.08	4. Changed the setting to close solenoid valve between pump and air chamber when the pump is stop, to avoid the pump repetitively restarting if there is	
₩ C 403.00	leakage happened.	
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	5. Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor	
	5. Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor is mismeasurement.	_
	 5. Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor is mismeasurement. 1.Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing. 	_
	 5. Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor is mismeasurement. 1.Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing. 2. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the 	_
	 Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor is mismeasurement. Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the Rosemount transducer pressure sensor calibration. 	_
APC V05.09	 Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor is mismeasurement. Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the Rosemount transducer pressure sensor calibration. Altered the ADT761-D/L pump starting control mode to stoped the pump when the inlet pressue is stable, to prevent the faulties casused by the 	_
APC V05.09	 5. Altered the starting control mode of 761-M to not stop the pump untill the inlet pressure is stable, to prevent the fault caused by the inlet pressure sensor is mismeasurement. 1.Added the zeroing function for absolute type, and added the venting delay and judgment for the pressure change rate when doing the gauge zeroing. 2. Added some serial commands for HART connection and pressure sensor calibration. And Fixed restoring factory reset failure problem when doing the Rosemount transducer pressure sensor calibration. 3. Altered the ADT761-D/L pump starting control mode to stoped the pump when the inlet pressue is stable, to prevent the faulties casused by the mismeasurement of Inlet pressure sensor. And shortened the starting time of ADT761-L/D/M, by canceling the inlet pressure measurement zeroing. 	
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APC V05.11	 Altered the fine adjust mode from reverse calibration control to setting points control, and improved the fine adjust operation and pressure controling. Added some serial commands for D/A Trim, Zero Trim of Hart. Fixed the problem that when doing the differential pressure tasks, if not used the absolute pressure mode, the settings on set point cannot be stored 	
	normally. 4. Fixed the bug that the max settable pressure value of 761-H is beyond the pressure range.	
APC V05.12	1. Fixed the problem of the dispalying low pressure range is incorrect when the unit is "psi" and under absolute pressure model.	
APC V05.13	Not released officially	
7 0 700.120	1. Altered the CPV commands, added the command parameter"1" to go back to main interface.	
	2. Added the optional width of 4 for eaternal pressure module display.	
APC V05.14	3. Fixed the bug that the Absolute pressure setting is dispeared, and altered the swtich damping time from [0.1, 99] to [0.1, 20]	Added the Hardware version APC-HP V03.03.03.04 and APC-HP
	4. Added special processes for E+H Deltabar S and Cerabar S sensor calibration commands, for supporting their tansducer's sensor calibration.	V03.04.03.04。
APC V05.15	Not released officially	
711 € ₹05.15	1. Fixed the problem that the protection does not operate when pump overcurrent.	
APC V05.16	2. Fixed the bug that the positive pneumatic error into the negative pressure chamber when shutdown the calibrator.	
AI C V05.10	3. Fixed the bug that the stability parameters was mistakenly changed in the event of abnormal auto-tuning.	
APC V05.17	Not released officially	
AFC V03.17	1. Increases the battery fault tips.	
APC V05.18	2. Increase the battery voltage chip diagnostic functions.	
APC V05.16	3. Fixed the bug that the instructions of ""R: OALLCTRLDATA"" and ""W: OHARTPARASET"" executed error.	
	4. Fixed the bug that the boot progress bar displays not right.	
ADC 1/05 10	5. Fixed the problem that the inlet pressure calibration can't be passed in some range of the calibrator.	
APC V05.19	1. Fixed a problem that the transmitter often disconnected when Communication with some type of HART transmitters.	
APC V05.20	1. Fixed the bug that the reconnection mechanism does not work well when the internal module is not connected.	
A D C V (0 F . 2.4	2.Adjust the automation running parameters of the pressure switch task to reduce test time.	
APC V05.21	Not released officially	
APC V05.22	Not released officially	
	1. Add prompt when battery voltage is abnormal;	
	2. Add the software watchdog;	
APC V05.23	3. Modify the HART underlying transceiver delay mechanisms to improve the compatibility of HART devices;	
	4. Add Zeroing prohibition for External absolute pressure module;	
	5. Add support for pressure units mH2O;	
	6. Solve the problem of the loss of calibration data models when the internal pressure module calibration; 1. Add "Ultra-low speed" mode for switch test;	
APC V05.24	2. Add external barometer sensor function (only for 761-LA, -MA, and -HA);	
	3. Add low pressure module protection during venting process.	
APC V05.25	1. New firmware for main board upgrade	
APC V05.26	Not released officially	
APC V05.27	Not released officially	
	1. Fixed HART document receiving miss problem which leads to connection losing when 761 is in processing,;	
	2. Added inH2O@20°C and mmH2O@20°C two new pressure unit (except for -BP);	
APC V05.28	3. Fixed long pressure unit display error in HART screen, main screen, task, and leakage test screen;	
	4. Expanded auto tune failure determination time.	
	5. Fixed the bug that the stability parameters was mistakenly changed during the exiting of abnormal auto-tuning.	
APC V05.29	Not released officially	
	1. Added real-time pressure display under "Information" -> "High Pressure Range" & "Low Pressure Range" 2. Optimized 24V power operation method	
	3. Support YOKOGAWA-EJX(0x3751) HART transmitter calibration	
APC V05.30	4. For 761 -HHP, added external pressure module "absolute" & "gauge" mode switch function which is controlled under test program requirement	
AI C V03.30		
AI C V03.30	5. Optimized switch test method	