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Technical Note 231101

Allflex Connect – ASR650 Settings

To ensure that the Allflex Connect App works properly with the ASR650, these settings must be changed, and others must be confirmed.

Before the App can connect to the ASR650 via Bluetooth, check the Bluetooth settings using ASR-PC-Demo and a serial connection like RS232. An RS232-to-USB converter may be required if there is no RS232 ports on the PC.



Select the 'Connection' item in the 'Settings' file menu.

Select the correct serial port and the correct baud rate, default baud rate is '9600'. Then open the connection by clicking the 'OK' button.

Connection				-		×
Serial						
Port Name:	USB Serial Port (COM	M3)				\sim
Baud Rate:	115200	\sim	Parity:	None		\sim
Data Bits:	8	\sim	Stop Bits:	1		\sim
	And a second		and the second			
Device Add:	255 (Broadcast)	~				
default			0	Ж	Cancel	

A successful connection is shown at the bottom of the main window:

ASR650		
Settings Read all Apply all Reset all	Connection Disconnect	Serial - COM3 115200 baud 8N1 Connected - Add:255

The first setting to be changed is the 'Module Power' that is available under the tab 'Module'. Select 'Enable' and send the setting by clicking the 'set' button.

Main	TagList	General	Tuning	TX/RX	Output Format	Synchronization	n Module	Bluetooth	WLAN	LAN	Mux				
Modu	le Power-		Module Info							Module Baudrate					
O Er	nable		\rightarrow	set	Mod	ule: ABT20	0 Blue	tooth	1152	00		\sim	set		
() Di	sable			get	reset	Module	9	get					get		

Now switch to the 'Bluetooth' tab and change the settings as described below.

Main	TagList	General	Tuning	TX/RX	Output Format	Synchronization	Module	Bluetooth	WLAN LAN	Mux	
Bluet	ooth				Peer add	ress			Baudrate		
O E	nable	<u>_</u>		5	1123456	789 Peer a	add, /hex)	-	15200	<i></i>	and the second second
Blu	etooth -										
\odot	Enable				set	1					
0	Disable				get] Se	et 'Blu 4ede t	etooth	' to 'Enabl	e' an	d the
Mo	de					IV	loue t	U Slave			
0	Master				set	1					
0	Slave				get]					
Pa	sskey					Ei Pi	nsure rofile	the Pas is 'SPP'	skey is '12 – these a	234′ a re the	nd the default
12	34)				set] va	alues.				
					get]					
Pro	file										
\odot	SPP										
0	BLE					1					
					set						
					get						

The yellow and then the green LED on the ABT200, Bluetooth add-on module on the ASR650, should now be activated. The blue LED switches on when there is an active Bluetooth connection.

Now the Allflex Connect App should be able to find the ASR650 over Bluetooth and to connect successfully.

There are other important settings to allow the App receiving the EID numbers to receive them correctly. These settings are explained below. Some of these settings are factory default values but still should be confirmed since they might have changed.



The 'Output Format' must be set to 'ISO24631':



'RF Activation' must be set to 'ON':

Main	TagList	General	Tuning	TX/RX	Output Format	Synchronization	Module	Bluetooth	WLAN	LAN	Mux		
RF A	ctivation				Receive	r sensitivity FDX							
0	N			set			5	et					
0	FF				100%								
				get	100%	auto adj.	9	jet					
100	ver	1.1			e rier	r sensitivity H	- Andrews	and some		and a star		and the second second	and the second

Set Synchronization to 'no Sync.' when no other reader operates in close vicinity. When using the settings 'Wireless Sync.' or 'Wired Sync.', the ASR650 will take the Sync Master role after a very short time when it does not receive a sync signal from another reader. These 3 settings should not cause any problems.

Main	TagList	General	Tuning	TX/RX	Output Format	Synchronization	Module	Bluetooth	WLAN	LAN	Mux	
Sync	. Mode				Wireless	Sync.			Wired	Sync.		
🔘 no	o Sync.					auto			• 0°			
\bigcirc N	Vireless Syr	nc.							0 18	30°		
\bigcirc w	Vired Sync.								O to	ggle		
O W	Vired Sync.	Slave only	r					auto				
0 W	Vired Sync.	Triggered		set			S	et				set
				get			g	jet				get

Using 'Wired Sync. Slave only' and 'Wired Sync. Triggered' can cause problems when there are no required signals coming from external devices, the ASR650 will not activate its RF field and hence no EID tags can be read. These two settings are only used in special applications and should not be selected for standard operation.