Classification	General Setting FAQ on EZ Data Logger					No.	1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	1/13

How to set and log data to a remote SQL Server?

Α	n	n	ıe	d	t0	
	-	~ .	•••	-		-

Platform	OS Version
PC	Windows 98/NT/2000/XP/Vista

EZ Data Logger can log data not only in local database but also to a remote SQL Server. You have to enable remote connection on SQL Server. The following steps will show you how to install < set the SQL Server, and then set the SQL Server remote connection in EZ Data Logger.

I. Install SQL Server Express 2005

Please download the setup file of SQL Server Express 2005 from Microsoft, and follow the recommendations to install SQL Server 2005 Express to your specified PC.

http://www.microsoft.com/download/en/details.aspx?displaylang=en&id=15291

II. Login SQL Server By Both SQL Server Authentication And Windows Authentication

Step1 : Click Start \rightarrow Point to Programs \rightarrow Point to Microsoft SQL Server 2005 \rightarrow Click SQL Server Management Studio Express.



Classification	General Setting FAQ on EZ Data Logger					No.	1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	2/13

Step2 : Login SQL Server 2005 with Windows Authentication.

Connect to Server		
SQL Serve	er.2005	Windows Server System
Server type:	Database Engine	
<u>S</u> erver name:	SQL:	EXPRESS 💌
<u>A</u> uthentication:	Windows Authent	ication
<u>U</u> ser name:		
<u>P</u> assword:		
	Re <u>m</u> ember j	password
Connect	Cancel	Help Options >>

Step3: Right-click the main database (host name \ SQLEXPRESS) and select **Properties**.



ICP DAS Co., Ltd. Technical document

Classification	General Setting FAQ on EZ Data Logger					No.	1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	3/13

Step4 : On the page "Server Properties" select Security options→ In "Server authentication"

select SQL Server and Windows Authentication mode \rightarrow Click OK button.

🧧 Server Properties -	SQLEXPRESS
Selecta page Providential Selection Selection (Selection Selection	🔄 Script 🝷 📑 Help
Memory Processors Security	Server authentication
Database Settings	O <u>W</u> indows Authentication mode
Permissions	⊙ <u>S</u> QL Server and Windows Authentication mode
	Login auditing
	O None
	○ Successful logins only
	○ <u>B</u> oth failed and successful logins
	Server proxy account
Connection	Enable server proxy account
Server:	Proxy account:
SQLEAFRESS	Options
Connection: Muser	
Jiew connection properties	Enable C2 audit tracing
	Cross database ownership chaining
Progress Peedy	
Ready	
	OK Cancel

ICP DAS Co., Ltd. Technical document

Classification	General Setting	No.	1-008-08				
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	4/13

Step5: Return to "Object Explorer", and then expand **Security** option \rightarrow Expand **Logins** option \rightarrow Right-click the account: **sa**, and then select **Properties**.



Step6: On the page "Login Properties" select **General** option \rightarrow Cancel the selection:

Enforce password policy to change password \rightarrow Input your new password for **sa** account.

electanage General	🔄 Script 🝷 💽 Help		
Server Roles User Mapping Status	Login <u>n</u> ame:	Sa	S <u>e</u> arch
	SQL Server authentic Password: Confirm password:	tion	
	Enforce password	policy	
	User must change	 password at next login	

Classification	General Setting FAQ on EZ Data Logger						1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	5/13

Step7 : On the same page "Login Properties" select **Status** option \rightarrow In the "Login" status select **Enable** \rightarrow Click **OK** button.

🚪 Login Properties - sa	
Selecta page General Server Roles User Manping	Script - 📑 Help Settings
	Permission to connect to database engine:
	Login: Enabled Disabled
	Status SQL Server authentication: <u>Login is locked out</u>
Connection	
Server:	
Connection:	
View connection properties	
Progress Boody	
Really	
	OK Cancel

Step8: Reboot the SQL Server or PC.

Right-click the main database (host name $\$ SQLEXPRESS) and select **Restart**.

ICP DAS Co., Ltd. Technical document



Classification	General Setti	ng FAQ on	EZ Data Log	ger		No.	1-008-08		
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	7/13		
Step3 : On the Database Engin	ne "Surface A ne→ Click R TCP/IP→ Cli	area Config emote con ck Apply .	uration for S Inections→	Services a	and Connecti cal and rem	ons" page ote conn	e, expand ections→		
SQL Help	Server 2005 Protect Your SC	Surface A	rea Configu	ration					
Enable only protect your	the services and ca server by reducing	onnection types the surface area	used by your appl . For default settin	ications. Disal gs, see <u>Help</u> .	bling unused servic	es and connec	tions he b s		
Select a cor	nponent and then co	onfigure its service	es and connection	S:	г.,	1			
	Database Engine Service Remote Conne L Server Browser	ctions By de client remot on wi name	rault, SQL Server connections only. e client connection nich SQL Server lis d pipes because it	2005 Express, Enterprise, St ns over TCP/II tens for incom requires fewe	E valuation, and De andard, and Workgr P. Use the options b ing client connection r ports to be opened	veloper edition: oup editions als elow to change ns. TCP/IP is p I across the fire	s allow local so listen for e the protocols referred over wall.		
	 Local connections only Local and remote connections Using TCP/IP only Using named pipes only Using both TCP/IP and named pipes 								
View by Ins	tance View by Cor	nponent		OK	Cancel	Apply	Help		

Classification	General Setting FAQ on EZ Data Logger			No.	1-008-08		
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	8/13

Step4 : On the "Surface Area Configuration for Services and Connections" page, expand

Database Engine \rightarrow Click **Service** \rightarrow Click **Stop** \rightarrow Wait until the MSSQLSERVER service stops, and then click **Start** to restart the MSSQLSERVER service \rightarrow **OK**.

	rice			
Rem	ote Connections	Service name:	MSSQL\$SQLEXPRESS	
	Diomsei	Display name:	SQL Server (SQLEXPRESS)	
		Description:	Provides storage, processing and and rapid transaction processing.	controlled access of data
		Startup type:	Automatic	
		Service status:	Running	
		- Chui 7		Davina
_		Start		Resume
Service Co	ontrol			
Attemptin	ng to stop the followin	g service on localhost :		
View by	\$SQLEXPRESS			
				Apply Help
	20	Disable this service	less your applications we it	
E Databas	e Engine	Disable (his service un	iess your applications use it.	
→ Serv	ice	c .		
	Service Control			
	Attempting to start	the following service on	localhost :	
	MSSQL\$SQLEXF	RESS		lied access or data
L		Consistent attachment	Stopped	
		Service status.	Stopped	
	(Start	Stop Pause	Resume
View by Instance V	'iew by Component			
View by Instance V	fiew by Component			
View by Instance V	'iew by Component		OK Cancel	Apply Help
View by Instance V	'iew by Component		OK Cancel	Apply Help
View by Instance V	∕iew by Component		OK Cancel	Apply Help
View by Instance V	′iew by Component		OK Cancel	Apply Help
View by Instance V	/iew by Component		OK Cancel	Apply Help



Classification	General Setting	J FAQ on I	EZ Data Logge	r		No.	1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	10/13

Step3 : Set **Enabled** to **Yes**, and under the "IP Addresses" tab, clear all the **TCP Dynamic Ports** entries (set them blank), and set **TCP Port** (under IP All) to **1433**, and click **Apply**. We are fixing the port, which means SQL Browser service can be stopped (in fact, this is a security best practice). You may need to use another port number if you have other versions/instances of SQL Server running.

Techlod	Vec
Keen Alive	res sector
	Yes
No Delay	No
P/IP Properties	
rotocol IP Addresses	
- 1P7	
Active	Yes
Enabled	No
IP Address	::1
TCP Dynamic Ports	0
TCP Port	
IP8	
Active	Yes
Enabled	No
IP Address	fe80::1%1
TCP Dynamic Ports	0
TCP Port	
IPAN .	
TCP Dynamic Ports	
TCP Port	1433
T CP Port TCP port	

Classification	General Setting	FAQ on I	EZ Data Logge	r		No.	1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	11/13

Step4 : Restart the SQL Express Service to active the new configuration.

Click SQL Server 2005 Services \rightarrow Right-click SQL Server (SQLEXPRESS) and select Restart.





Classification	General Setting	g FAQ on I	EZ Data Logge	r		No.	1-008-08
Author	Amber	Version	1.0.0	Date	2012/05/11	Page	13/13

Step3: From the button list click the **Start** button to execute the project and log data to SQL Server.





Tips and warnings :

The following table shows the description of the properties that you need to use when configuring SQL server connection in EZ Data Logger.

Server	User can use the below connection string to connect to local or					
	remote SQL Server.					
	1. Use the connection string to connect to local SQL Server.					
	→ .\SQLEXPRESS					
	2. Use the connection string to connect to assignable remote					
	SQL Server. The IP means remote server's IP.					
	→ IP,1433					
	Ex: 192.168.0.133,1433					
User Name	Login account.					
Password	Login password.					
Database Name	User define database name.					
Save Interval(sec)	The time interval to save to the SQL Server. The unit of time					
	interval is second.					
1	1					
	ICP DAS Co., Ltd. Technical document					