Type: Data Logging & Control – Extension range of Total Marks Awarded: 24/40								
	<b>skills</b> FEATURES of SOFTWARE USED: Sensors and data logging and control devices;							
	Programming commands; Data inputs; Observation of data and analysis; Outputs in textual and graphical form; External data sources.							
		S: Although this project idea seer	ms to have been set by the					
		kled to an extension level using t						
		t is the lack of description, espec						
		• • •	ne extended range of marks and					
		as to how and why marks were a						
		ed. The evaluation addresses th						
PROCESS	RANGE	EVIDENCE	COMMENTS					
Identify	0 – 5	A clear description of problem						
		and its effects has been						
		stated.						
		The user has been identified.						
		Possible alternative ways of						
		solving the problem are						
		presented.						
		A solution has been selected						
		by giving adequate reasons.						
		by giving adoquate reacone.						
		The user requirements (taken						
		as the quantitative objectives)						
5 marks		are stated.						
Analyse	0 – 9	A very good, detailed	Excellent hardware detail but still					
		description of the hardware	gains one mark.					
		required for the solution has						
		been given. Some description						
		of the software to be used.						
		Detail of the data flow is	The processes and outputs should have been described in					
		indicated. Details of the	more detail, possibly through a					
		inputs mentioned.	diagram. E.g. showing how data					
		inputs mentioned.	input is stored, analysed/					
		Although slightly inaccurate	processed and output (onto a					
		and very brief, a discussion	chart, or as an audible sound).					
		about the processes and						
		outputs is provided.						
		Considerable detail about						
		security and backups						
7		provided.						
7 marks								

			1
Design	0 – 9	Detailed designs included.	Initial designs should show the flow of data within the hardware to be used.
		Some coding of program flow included but unclear.	Any designs of the coding/ programs should be clearly identified and annotated to show what each section does.
			Comments from the user could be received and some changes could be indicated.
			Final designs could show the changes included.
			A test plan showing a breakdown of the original objectives should have been created.
4 marks			
Implement	0 – 12	Printouts of the final system show results and tests as seen on the computer monitor.	There is no detailed, step by step description of how the system was created. This should have shown the key features of the data logging equipment used.
		Annotation is unclear.	Fully annotated printouts showing tests, whether successful or unsuccessful should have been included.
			A description of the errors encountered and how they were corrected should have been carried out.
5 marks			Comments from the user during tests would have been useful.
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Evaluate	0 – 5	Some comments on the overall outcome of the solution based on the original objectives. Discussion of system limitations and any problems. Discussion of effect of system on users.	Discussion about the software does not gain marks whereas a discussion of how well the tools used solved the problem does. Real comments from the user would have been helpful for discussing improvements, critical review and whether the objectives were met.			
3 marks						
TOTAL 24						
Comments on the Quality of Written Communication: Good use of grammar, sentence						
structure and clear expression indicates a level 3. Possible use of spelling and grammar						
checker makes it difficult to comment on the original spelling and grammar of the candidate.						