

Commissioning Terms & Conditions

1.0 Protec Fire Detection PLC Terms & Conditions of sale and supply (Section 19 - Commissioning) : 19.1 Where the Client is to fix Goods provided by the Supplier and the Supplier is to Commission the Goods: on; 19.1.1 the Client shall complete, sign and deliver to the Supplier not less than fourteen days before commissioning is required the Supplier's form of application for Commissioning; 19.1.2 the Client shall ensure that the whole of the works to be commissioned are available to the Supplier to enable the Supplier to carry out the Commissioning works in one continuous operation; and; 19.1.3 the Supplier shall be entitled to charge and the Client shall pay the Supplier standing time and additional costs at the Supplier's stated daily commissioning rate or multiples thereof incurred if the works to be commissioned are incomplete or not available to the Supplier on the date stated for commissioning or if the; 19.2 The Supplier will carry out commissioning works during any normal working hours, being a maximum 7.5 hours on weekdays between 0800 hours and 17.30 hours Monday to Friday inclusive (Half day commission are based on a maximum 3.75 hours) commissioning works are delayed or interrupted due to the fault of the Client; 19.3. In the event that the Client requires Commissioning works outside normal working hours it must issue to the Supplier an amendment to the Application for Commissioning. Commissioning works that take place outside the hours stipulated in clause 19.2 above shall be chargeable at the Suppliers premium rate table; 19.4. The Supplier's quotation for Commissioning is prepared upon the basis that there shall be provided by the Client free of charge to the Supplier for use by the Supplier's Commissioning Engineer: 19.4.1.mains and temporary power; 19.4.2. Scaffolding and access equipment; 19.4.3. storage and welfare facilities; 19.4.4. as fitted installation drawing/installation schematic drawings; and 19.4.5.installers test sheets and attendance by a representative of the Installer. 19.5 The Supplier shall not be required to complete any commissioning works unless there is a representative of the Installer present during the process of commissioning. 19.6 The Client shall be responsible for witnessing the works of commissioning and signature on completion certifying that he/she/its authorised representative has witnessed the satisfactory operation of the Goods. In the event that the Client fails to do so, the Warranty in clause 3 shall not be available or apply in respect of the Goods. Section 19 relates to the commissioning section only, however for our full terms and conditions please refer to our website 'www.protec.co.uk/terms/'

2.0 Inspection and testing of wiring (BS5839 Section 38) - for Fire detection systems: Note - these tests should be carried out PRIOR to commissioning, with equipment disconnected. 2.1 All wiring must be installed and secured to BS7671 2.2 All wiring must be installed and secured to BS7671 2.3 ECA recommended Cable Separation for Electromagnetic Compatibility in Buildings, must be followed. 2.4 With reference to BS5839-1 section 38.2 (a) - All installed cables with a voltage rating suitable for mains use should be subject to insulation testing at 500V d.c. Prior to this test, cables should be disconnected from all equipment that could be damaged by the test. 2.5 With reference to BS5839-1 section 38.2 (b) - Insulation resistance, measured in test 38.2 (a), between conductors, between each conductor and earth, and between conductor and any screen, should be, at least, 2M ohms. 2.6 With reference to BS5839-1 section 38.2 c) Earth continuity and , for mains supply circuits, earth fault loop impedance should be tested to ensure compliance with BS7671 2.7 The resistance of any addressable; analogue; digital loop must not exceed 16 ohms per conductor. 2.8 Earth continuity must be maintained throughout all cabling. 2.9 All termination boxes to be securely fixed and earth bonded. 2.10 All conductors must be identified. Tails should be sufficient length to connect with the equipment. 2.11 Any cabling errors must be located and rectified by the electrical installer. 2.12 ECA recommended Cable Separation for Electromagnetic Compatibility in Buildings, must be followed. 2.13 With reference to BS5839-1 section 38.2 (a) - All installed cables with a voltage rating suitable for mains use should be subject to insulation testing at 500V d.c. Prior to this test, cables should be disconnected from all equipment that could be damaged by the test. 2.14 With reference to BS5839-1 section 38.2 (b) - Insulation resistance, measured in test 38.2 (a), between conductors, between each conductor and earth, and between conductor and any screen, should be, at least, 2M ohms. 2.15 With reference to BS5839 section 38.2 c) Earth continuity and , for mains supply circuits, earth fault loop impedance should be tested to ensure compliance with BS7671 2.16 The resistance of any addressable; analogue; digital loop must not exceed 16 ohms per conductor. 2.17 Earth continuity must be maintained throughout all cabling. 2.18 All termination boxes to be securely fixed and earth bonded. 2.19 All conductors must be identified. Tails should be sufficient length to connect with the equipment. 2.20 Any cabling errors must be located and rectified by the electrical installer.

3.0 Connection of field equipment: 3.1 All field equipment, must be connected as per the provided wiring connection diagrams. 3.2 Install all field devices i.e. MCP's, Detectors, interfaces, sounders etc. 3.3 Addressable or Analogue addressable loop devices, must have their 'address' number set. 3.4 Digital addressable systems (6000 range) the 'Bar-code' label from each loop device must be removed and entered into the 'Loop Commissioning' book against the appropriate address number. This completed book must be available at the beginning of the commission. For full installation details please refer to our product installation manuals 'www.protec.co.uk/downloads-list/manuals/'

4.0 Connection of control panels: 4.1 ALL control equipment must be secured correctly. 4.2 Field wiring must be terminated into the control panel / PSU / interface units, however no cables must be connected. 4.3 Power MUST NOT be switched on until the commission engineer is in attendance. For full installation details please refer to our product installation manuals 'www.protec.co.uk/downloads-list/manuals/'

5.0 Documentation: 5.1 all tests results from 2.0 should be available for our commission engineer. 5.2 Cause and effects specification should be available in writing to our commission engineer. Failure to provide any system specification will result in the system being pre-programmed. I.e) Any device activates all outputs. If verbal instructions are given, any return visit to change the program will be chargeable at our current rates. 5.3 Device location text must be completed and issued prior to commissioning. If text is provided once the commission has commenced, the text will be inspected by random testing only. Electronic text editors available from our website 'www.protec.co.uk/downloads-list/text-editors/' 5.4 All Access codes for any open protocol, client managed protocol or third party systems must be available to our engineer prior to commencing the commissioning. If codes are not available then we will be unable to complete the requested works and we reserve the right to charge on a time and expenses basis. 5.5 A comprehensive radio survey must be completed in advance of the commissioning and a record of strength readings for each radio device taken at the time of the survey.

6.0 General: 6.1 the commissioning application form must be completed before an engineer will attend site. 6.2 Suitable scaffolding and plant must be supplied to meet the requirements of the Health and Safety at Work Act. 6.3 The installation electrician shall be present for the duration of the commissioning, along with the wiring drawings. 6.4 An appointed representative will be present to witness tests and provide the certificate of installation and commissioning so that our engineer can sign. If this certificate is not available, then we will provide Protec product commissioning certificate. 6.5 A commissioning cannot take place if an account is overdue. 6.5 Payment for commissioning will be nett, payable within 28 days. 6.6 Commissioning of systems will normally be charged at engineer's current rate plus all expenses unless a figure is previously quoted, insert figure on application form. When a quotation is given it is subject to all terms and conditions adhered to, and the information given on this form being accurate. If this is not complied with, then at our sole discretion, we reserve the right to charge on a time and expenses basis. Normally we will allow a total allowance of 30 minutes waiting time on site for breach of terms to be rectified before expenses basis. 6.7 A full day commissioning is in normal working hours, being a maximum 7.5 hours on weekdays between 0800 hours and 17.00 hours Monday to Friday inclusive, excluding any bank holidays, any additional hours shall be chargeable at the suppliers premium rate. 6.8 A half day commissioning is in normal working hours, being a maximum 3.75 hours on weekdays between 0800 hours and 17.00 hours Monday to Friday inclusive, excluding any bank holidays, if the hours are exceeded a full days commissioning rate will be chargeable. 6.9 Any required permits must have been arranged in advance of our attendance, any delays or cancelled visits due to permits not being arranged we reserve the right to charge on a time and expenses basis. 6.10 For any existing systems that have not been maintained or supported by Protec, will require the full system details and current up to date system cause and effects files to enable Protec to implement the required commissioning works. Protec Fire Detection PLC cannot be held responsible for any failures, additional works or replacement parts in the event of either the panel or system failing during our works. Such works are carried out entirely at your risk. We can only provide a warranty on the equipment being commissioned and not the system as a whole in accordance with our terms and conditions of sale.

7.0 Product Commissioning standards: 7.1 Fire detection systems will be commissioned to BS5839-1 section 5 part 39.2 only when all the relevant information in sections 8.0 and 9.0 of the request form has been provided. If this information is not provided then our engineer will 'set to work' only and not commission to the BS5839-1 requirements.7.2 If additional sections of the BS5839-1 are required, this work will be chargeable at our current rates. 7.3 Our commissioning does not include certifying or providing a fire detection 'Verification certificate' 7.4 PAVA commissioned to BS5839-8; 7.5 Emergency lighting commissioned to BS5266-8 & BS5266-1; 7.6 Gas suppression systems commissioned to BS5839-1; 7.6 EVC commissioned to BS5839-9.

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