



**INDIAN INSTITUTE OF TECHNOLOGY BOMBAY**  
**MATERIALS MANAGEMENT DIVISION**  
Powai, Mumbai 400076.

PR No. 1000037927

Rfx No. 6100001649

**Technical Specification for Electro Physiology System**

<b>Sr. No</b>	<b>Detailed Technical Specification</b>	<b>Compliance (Yes/No)</b>
<b>1</b>	<p><b><u>Data Acquisition unit</u></b> Item code PL26T04 The PowerLab 26T data acquisition unit features 4 general purpose inputs (DIN), a dual Bio Amp, isolated stimulator, trigger input, and an analog output (non-isolated). It also includes an I2C port for connection to ADInstruments' range of Front Ends. The PL26T04 features a durable aluminium enclosure and ships with a MLADDF30 Stimulating Bar Electrode, TN1012/ST Pulse Transducer, MLA2540 Shielded Bio Amp Cable, MLA2505 Shielded Lead Wires (5), MLAC22 BNC-DIN Smart Adapter (2), and MLAC25 BNC to DIN Cable (2m). The PowerLab uses a USB interface for connection to Windows and MacOS computers and has an aggregate sampling rate of 400k samples/s (100k samples/s per channel). The Bio Amp and Isolated Stimulator are certified safe for human connection, BF rated. Software is required for use, and is purchased separately. General purpose inputs 3 &amp; 4 are shared with the built-in dual Bio Amp.</p>	
<b>2</b>	<p><b><u>Human Physiology KIT</u></b> Item code PTK30 The PTK30 Human Physiology Kit allows students to investigate and record a number of laboratory lessons on human subjects. The kit includes the TN1132/ST Respiratory Belt, MLT1102/D Sphygmomanometer (3 cuff sizes), MLT201 Cardio Microphone, MLA92/D Push Button Switch, MLT004/ST Grip Force Transducer, MLAYDG Dry Earth Strap, and MLA93/D Tendon Hammer</p>	
<b>3</b>	<p><b><u>LabChart Software</u></b> Item code LCS110/8 The LCS110/8 LabChart Pro Education Single Installation License contains LabChart 8 software (for Windows and Mac) and corresponding LabChart Analysis Software Modules (excluding GLP Client and Server) and all related LabChart Teaching experiments and resources. This software is licensed for use in teaching purposes only and is for a single computer installation</p>	



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<b>4</b>	<p><b><u>Data Acquisition Unit</u></b> Item code--PL15T02 The PL15T02 PowerLab 15T data acquisition unit includes a dual channel Bio Amp, an isolated stimulator, two general-purpose Inputs (DIN) and an analog output (non-isolated). Software must be ordered separately. The PL15T02 features a durable aluminium enclosure and includes a TN1012/ST Pulse Transducer, MLADDF30 Stimulating Bar Electrode, MLA2540 Shielded Bio Amp Cable, MLA2505 Shielded Lead Wires (5), and MLAC25 BNC to DIN Cable (2m). The PowerLab uses a USB interface for connection to Windows and MacOS computers (MacOS supported only when used with LabChart) and has a maximum sampling rate of 100k samples/s per channel.</p>	
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