



EcuPlus® TC-I **Easy** is a timing control unit compatible with TCI-IKEDA Ignition Systems with two magnets 60, 70 and 89 mm of diameter.

Order code: **U.TC-IE**

Data sheet:

Features:	<p>Engine temperature reduction</p> <p>Increase the torque and horsepower</p> <p>Reduce the torque and power gaps</p> <p>Extend the top engine speed</p> <p>Fuel consumption reduction</p> <p>Current and previous Run time measurement</p> <p>Engine total time measurement</p> <p>Engine speed measurement</p> <p>Maximum car model speed</p> <p>Programmable maintenance notice</p> <p>Timing ignition tuning</p>
Logical unit:	<p>Microcontroller RISC 8 Bit High-performance low power, based with Crystal Unit @ 8MHz to maintain high accuracy</p> <p>Serial communication with personal computer</p> <p>Integrated bootloader function for firmware update</p>
	<p>Self-diagnosis function for memory control,data transmission, general operation and time base</p> <p>The ECU is protected against short circuit, for all inputs/outputs and is also immune both to and from the radio frequency transmission.</p>

Temperature measurement:	<p>Compatible probes: Type K thermocouples (+ Chromel - Alumel) IEC 584 Standard</p> <p>Measurement range: between 0°C <-> 1000°C (32 °F <-> 1832°F)</p> <p>Probe connector type: Binder Snap series 719 3 poles,</p> <p>Contact material: CuZn (Brass) Contact plating Au (Gold)</p> <p>Mechanical operation > 500 mating cycles</p> <p>Sampling rate: 250msec</p> <p>Resolution: 0.25 °C (32.45 °F)</p> <p>Accuracy of the acquisition system:</p> <p>From 0 to 749 °C = ± 2 °C (32 to 1380.2 °F = ± 35.6 °F)</p> <p>From 750 °C to 1000 °C = ± 4.75 °C (1382 °F to 1832 °F = ± 40.55 °F)</p> <p>Cold junction compensation error: ± 3 °C (± 37.4 °F) for ambient temperatures between 0 and + 50 °C (32 and 122 °F)</p>
Calibration maps	<p>Number of programmable maps: 8</p> <p>Size of each correction map: 32X1 step</p> <p>Types of flywheels supported: 60, 70, 89mm and on request, it is possible to develop customized flywheel setups</p> <p>The 8 ignition timing maps which operate according to engine speed, are completely configurable by the user end by means of the specific management software EcuPlus Manager.</p>
Elapsed time measurement:	<p>Measurement of the time elapsed for each test session</p> <p>Memorization of the elapsed time of the previous three session</p> <p>Total engine time memory resettable to up to four independent engines</p> <p>Time error measurement: ≈ 5 Sec/Hour</p>
Containment Box:	<p>Material: Lightweight thermoplastic polymer (ABS) UL94 V-0 flammability rating retardant plastic, rigid resistant to shocks and vibrations, device also suitable for installation on the vehicle being tested</p> <p>Black color with scratch-resistant satin finish. The special construction and sealing , make it completely waterproof.</p>
Connection leads: Environmental conditions:	<p>Material: The ACW wire has excellent fluid resistance and is designed to resist attack from oil, brake fluid, antifreeze and fuels used within the automotive trade. High operating temperature up to 150°C / 302°F</p> <p>Flame Retardant, Low Smoke Density, Self-extinguishing and excellent mechanical strength</p> <p>Operating temperature: -25 °C and 75 °C (-13°F to 167 °F)</p>
Dimensions and weight:	<p>Dimension LxWxH : 60 x 35 x 20mm (2.36 X 1.37 X 0.78 inch)</p> <p>Weight: 43gr. (1.51 oz)</p>