

TL ELEKTRONICS INSTRUMENTS



COMBINED ENGINE INSTRUMENT

• High performance, small dimensions & weight - an ideal instrument suitable for all types of engines • Set value limits at 2 levels (Warning & Alarm) for all measured values. In case these values are exceeded the instrument will warn you in time of any possible engine damage • Configure display to show temperature, pressure, rotations, battery voltage, engine hours, OAT, fuel consumption as you wish using the configuration program delivered with the instrument. Size: 3-1/8"

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| Digital eng. instr. for combine engine values measuring | P/N 10-00893 |
| Thermocouple probe for EGT (type K) M8x1 screw type - for all engines | P/N 10-00894 |
| Thermocouple probe for CHT (type J) 12mm hole - for all engines | P/N 10-00895 |
| Thermocouple probe for CHT (type J) 14mm hole - for all engines | P/N 10-00896 |
| Thermocouple probe for CHT (type J) 18mm hole - for all engines | P/N 10-00897 |
| Oil or water temp. sender (0 to 110°C/230°F) for Rotax 2-stroke | P/N 10-00898 |
| Oil or water temp. sender (0 to 150°C/300°F) for Rotax 4-stroke | P/N 10-00899 |
| Passive oil pressure sender (0 to 145 PSI, 1/8"-NPT) for all engines | P/N 10-00904 |
| Active oil pressure sender (0 to 145 PSI, 1/8"-NPT) for all engines | P/N 10-00905 |
| Metal hi-quality flow sensor (0-30 gph)-all engines | P/N 10-00906 |
| Passive speed sensor-all eng. (inductive sensor) | P/N 10-00907 |
| Active speed sensor-all engines (hall effect 3-wire sensor) 5-30V power supply req. | P/N 10-00909 |
| Active speed sensor-all engines (hall effect 3-wire sensor) 5V. | P/N 10-00910 |



FUEL COMPUTER

• Measure immediate fuel flow of your engine in liters/hour or liters/100 km and average fuel consumption • Set limit values at 2 levels (Warning & Alarm), for all measured values. In case these values are exceeded, the instrument will warn you prior possible failure or damage of the engine • Display at any time the fuel levels in the left, right or both fuel tanks. Size: 2-1/4"

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| Fuel computer without fuel-flow sensor | P/N 10-00870 |
| Metal high-quality flow sensor for all engines ... | P/N 10-00871 |
| Passive resistive fuel level sender (all aircraft) | P/N 10-00872 |
| Fuel Qty Sender Float (240-30 OHM) | P/N 10-00056 |
| Active cap. fuel level sender (all aircraft) | P/N 10-00798 |
| Active fuel pressure sender (all aircraft) | P/N 10-00873 |



INTERCOM

• Intelligently managed voice activators (VOX) • Listen to your favorite music e.g. from CD/cassette directly to your headphones or attach your intercom to your mobile telephone • Control your intercom digitally using keys & displays • Record and play pre-takeoff or landing checklist directly to your headphones (checklist can easily be created on your PC and recorded into the intercom) • In case of accident simply switch on emergency broadcast, which will be re-played at short intervals and transmitted using a RDST w/pre-recorded message. Size: 2-1/4"

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| Intercom w/voice alarm, checklist & digital voice rec. | P/N 10-00867 |
| Connection cable for mobile phone | P/N 10-00868 |
| Connection cable to VHF airband-transceiver ... | P/N 10-00869 |



ALTIMETER WITH ENCODER

• 2 instruments for the price of one - altimeter & mode C encoder for all types of transponder • Set value limits at 2 levels (Warning & Alarm) for multiples • Display QNH or QFE levels with the option of setting zero • The instrument will provide a warning if an insufficient oxygen altitude is reached • The instrument will signal low altitude, e.g. after opening of undercarriage, MDA, approach. Size: 2-1/4"

P/N 10-00891



VOLT-AMPERE METER

• First volt-ampere meter with 3-phase measurement of voltage, current & frequency • Connect up to 3 circuits for measuring current and voltage, for example instrument panel circuit, light circuit and flash and other circuit • Check the activity of the three-phase voltage converter for an artificial horizon using your voltmeter with the option of checking 400 Hz frequency • Set value limits at two levels (Warning and Alarm) for minimum & maximum voltage and current. Set the form of display either by gradual switching of voltage and current on the display at intervals chosen by you (SCAN function) or by displaying lowest or highest current-voltage. Size: 2-1/4"

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| Digital volt-ampere meter & frequency meter | P/N 10-00883 |
| Current shunt sensor for measuring to 50amps (for all aircraft) | P/N 10-00884 |

ACOUSTIC VERTICAL SPEED INDICATOR



TL-3624 is suitable for most aircraft whether they be airplanes or whether they be gliders. • Measure climb & descent rate with high level of accuracy using the integrated or averaging memory with selectable averaging time • Set value limits at 2 levels (Warning & Alarm) for climb and descent rate • Use acoustic climb & descent rate signals using an external loudspeaker. Size: 2-1/4"

P/N 10-00892



RPM & ENGINE HOURS

• Measure rotations & engine hours with the option to trigger the counting from a certain engine rotation rate (by your choice) so that you can divide taxing from flight time • Set value limits at 2 levels (Warning & Alarm) for all measured values. In case these values are exceeded the instrument will warn you in time of any possible engine damage • Several separate users with pilot/student option

- suitable for several owners or in flight schools, where the instructor selects the student and the time will be measured only against his/her name. Size: 2-1/4"

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| Digital RPM w/ engine-clock & stop-watch | P/N 10-00886 |
| Digital RPM w/ engine-clock, stop-watch & internal speed sensor | P/N 10-00887 |



THERMOMETER

• Use the thermometer to measure up to 4 temperatures and oil pressure • Use the automatic choke function using the modeler's servo regulated by thermometer according to any of the measured temperatures e.g. CHT • Set value limits at 2 levels (Warning and Alarm) for all measured values. In case these values are exceeded the instrument will warn you at time of any possible engine damage

• Set the form of display either by gradual switching of measured temperatures on the display at intervals selected by you (SCAN function) or displaying the closest temperatures to the limit values that you have set. Size: 2-1/4"

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| Therm. for 4 temp. & press. w/choke control | P/N 10-00874 |
| Thermocouple probe for CHT (type J) 12mm hole - for all engines | P/N 10-00876 |
| Thermocouple probe for CHT (type J) 14mm hole - for all engines | P/N 10-00877 |
| Oil or water temp. sender (0 to 150°C/300°F) for Rotax 4-stroke | P/N 10-00879 |



G ACCELEROMETER

• Using the accelerometer measure the operational values of your aircraft on the vertical axis • Set value limits at 2 levels (Warning and Alarm) for all measured values. In case these values are exceeded the instrument will warn you in time of any possible damage to the aircraft • Always be informed of values approaching the limits, which could result in damage to the aircraft • Always be aware of exceeded values from the previous flight after switching on the instrument • Start of logging is carried out by a switch on the undercarriage or by an internal / external pressure sensor on attaining your selected speed. Size: 2-1/4"

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| Digital accelerometer | P/N 10-00889 |
| Digital accelerometer w/ internal airspeed sens. | P/N 10-00890 |

TL-3424-RAS ACCELEROMETER



The TL-3424 is complete weight acceleration management. The instrument incorporates a high-precision sensor for measuring acceleration in the vertical axis. The SAS version also incorporates a sensor for measuring the indicated airspeed, which enables the activation of memory recording. Both versions enable to utilize an undercarriage scanner that can also activate memory recording.

P/N 10-02312

TL INSTRUMENTS ARE FOR EXPERIMENTAL AIRCRAFT ONLY.

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