

Portable Air Checker for Air Jet Looms

TR-7810AC Series



TR-7810AC
For TOYOTA/TSUDAKOMA AJL



TR-7810ACD
For DORNIER AJL



TR-7810ACP
For PICANOL AJL

TAKAYAMA REED's [Portable Air Checkers for AJL, TR-7810 series](#) contributes to the improved quality control of your reeds based on comparison of air flow graphs.

◆ [Continuous Measurement](#)

One of the advantages of the [TR-7810AC series](#) is continuous and digital measurement (1mm pitch) of air flow. Rather than manual measurement and checking of just a few points, a comprehensive air flow status of the reed is provided. Location of unusual air flow along the reeds can be identified on the graph generated by the encoder behind the unit.

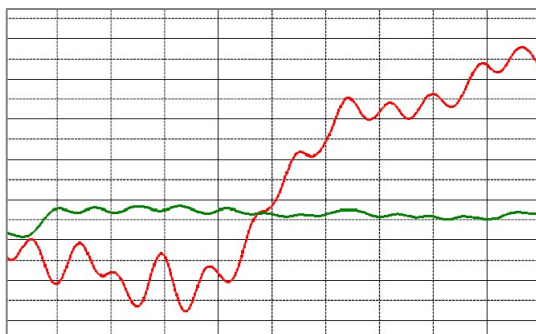
◆ [On-loom Measurement](#)

The [TR-7810AC series](#) enables you to measure air flow on-loom with only a minimum preparation of your Picanol AJL (move the reed to the vertical position, loosen the warp yarns, lift and fix the reed).

◆ [Easy data input, graph, and comparison with past data](#)

After installation of software, air flow data can be imported from the [TR-7810AC series](#) to your personal computer through a USB cable. The air flow data can be quickly and easily converted to a graph format. Those data can be stored according to your reed serial numbers, so comparison with past data of the same reed is feasible (10 measurements per serial number can be stored in the PC file).

〈Sample of Air Flow Graph〉



Air flow of new reeds (**Green Line**) is the best. Air flow that is **too high** may cause the weft to fly out of the tunnel. **Fluctuating** air flow may prevent the stable flight of the weft. Air flow that is **too low** may cause unexpected weft flight anomalies.

Red line: Dirty reed before cleaning

Green Line: New reed or after cleaning

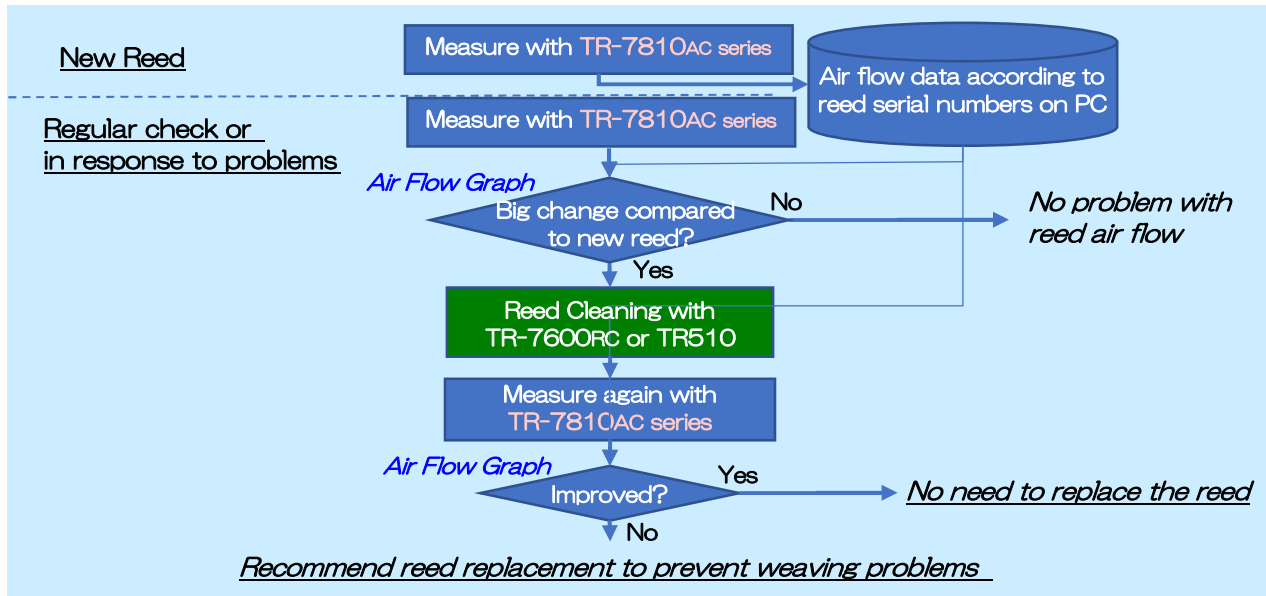
(Ideal air flow graph is different by loom makers)

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◆ Other Features of the TR-7810AC series

- Calibration before every measurement can ensure accuracy of your air flow data.
- Real time checking of air flow on the LCD of the **TR-7810AC series** during measurement is also feasible. The graph can be displayed on the LCD, too.
- PDF output of the graph is possible. This makes it easy to distribute results amongst necessary co-workers.
- Encoder position is adjustable depending on the outer height of your AJL reeds.
- **[NEW]** Rechargeable. About 1 hour for full-charging, about 3 hours as usage time at full-recharged, and over 250,000 times rechargeable.

TR recommends a combination of the **TR-7810AC series** and the TR Reed Cleaner (**TR-7600RC: On-loom Reed Cleaner** or **TR510: Ultrasonic Reed Cleaning Machine**) for quality control of your reeds:



SPECIFICATIONS

Model	TR-7810AC	TR-7810ACD	TR-7810ACP
Applicable AJL Makers	TOYOTA&TSUDAKOMA	DORNIER	PICANOL
Maximum measurable length	5,000mm	6,000mm	5,000mm
Data Storage Capacity (main unit)	Maximum 10 data sets		
Data Output (on PC)	Graphical display and CSV output		
Unit of Measurement	cmAq・10 ⁻³ kgf/cm ²	mbar	
Air Supply Pressure	5 bars		
Power Supply	[NEW] Rechargeable with Hybrid Super Capacitor (HSC) About 1 hour for full-recharging About 3 hours as usage time at full-recharged Over 250,000 times rechargeable (USB power supply 5VDC)		
Method of Fixation	Magnet (Lightly push the instrument to magnetically fix to the reed)		
Dimensions	202mm×108mm×35mm		
Weight	700g		

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