McLANE®
RESEARCH LABORATORIES, INC.

Technical Support Bulletin 2015-02	Profiling Modes	March 2, 2015

Alert Level: INFORMATIONAL

Instruments: MMP, ITP

Software Versions: Firmware v5.00 and higher (standard or patterned) v5.04 (adaptive)

Hardware Version: N/A

Subject: Different Profiling Modes

Summary: A Description of Different Profiling Modes and Deployment Suitability is Provided

Technical Details: Profilers have Standard, Patterned and Adaptive profiling modes. The table below matches mode with deployment suitability. Profilers ship with the mode pre-set in the Advanced Interface menu.

Profiling Mode	Deployment Requirements	Other Considerations
Standard	For a deployment that only requires simple travel up and down the mooring wire, defined by upper and lower pressure limits, profile schedules, and operating parameters.	All profiles have the same shallow and deep end points, and time between profiles is fixed throughout the deployment. Single profiles, paired profiles (up followed immediately by down) and burst profiles can be programmed. Programming is done in the Profiler firmware.
Patterned	For a deployment that requires a more flexible profiling plan. Shallow and deep pressure stops can be different per profile, intervals can be user defined, and profiling parameters can differ.	Each individual profile can have different shallow and deep pressure stops. Intervals can be programmed to increase or decrease profiling frequency over the time of the deployment. When scientifically important conditions are expected (eg. seasonally), profiling can occur more frequently. Profiling can be programmed for less frequent data casts during less active conditions. Stationary profiles are also possible. Programming is done in the Deployment Planner Windows program and transferred to the Profiler firmware.
Adaptive	The deployment that does not require pre-programmed deployment parameters. Profiler movement is triggered instead by commands received via inductive modem through an external controller with real-time communications.	The Profiler waits for commands from the external controller, reports the results, and waits for the next commands. There are no pre-programmed deployment parameters in this Profiling Mode. Adaptive profiling mode requires significant customer-supplied infrastructure on the mooring, extensive testing, and further integration. Contact mclane@mclanelabs.com to discuss adaptive profiling deployments.

Tel: +1 508 495 4000 **www.mclanelabs.com** **Fax: +1 508 495 3333**