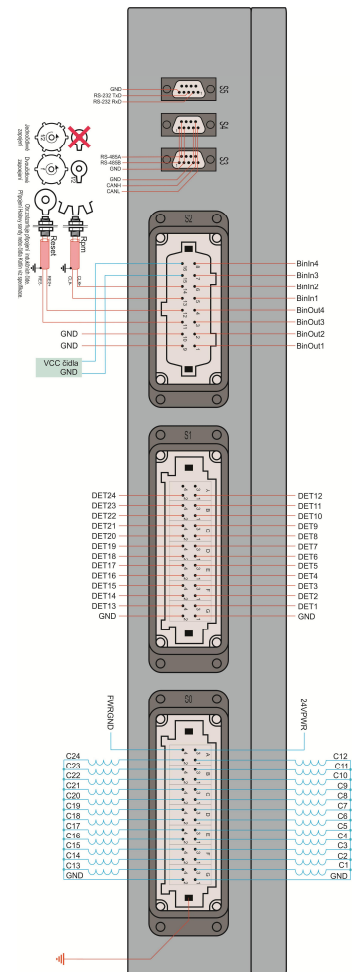


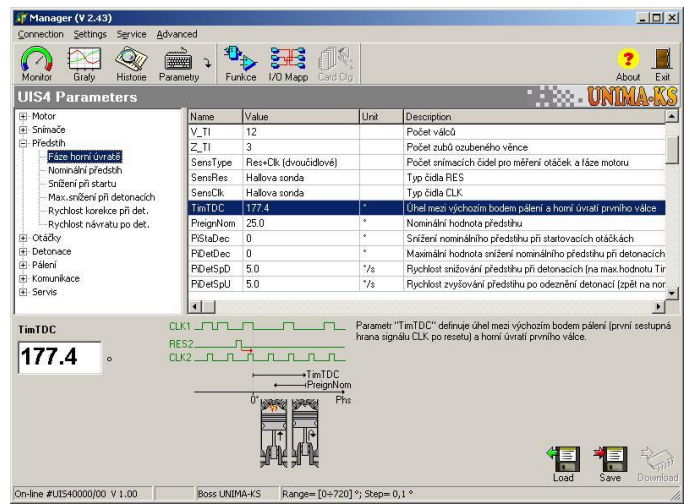


**UIS4 (Unima Ignition System) is an intelligent capacitive electronic ignition for 6÷24 cylinder engines (6÷12 cylinder in dual mode)**

- Exciting up to 24 inductive coils
- Dual mode (two spark plugs per cylinder with independent source)
- Supply voltage 24V+/-20%, consumption 250mA/5A (idle/run)
- RS-232 (diagnostics and configuration by Manager software)
- RS-485 (control over a data line, collaboration with CU UniGEN)
- CAN (control over a CAN line, reading ignition data)
- Configurable analog and digital inputs and outputs
- Ability to create custom algorithms with synoptic features (logic gates, flip-flops, comparators, analog addition, subtraction, analog, memory, switches, etc.)
- 4x binary input
- 4x binary output
- 2x sensor input – reset and clock (configurable by SW - Hall probe / Inductive sensor / Kotlin)
- 1x knock sensor
- Misfire detection (Measuring the quality of flashover sparks)
- Adjustable output voltage (power) 250-400V, possibility of ignition energy correction at all cylinders individually
- Correction of pre-ignition by engine speed, detonation signal or by a user (eg by fuel type)
- Selectable number of teeth for speed sensing 2-255 (one or two sensors sensing mode)
- Test-burning mode on on stopped engine
- Integrated tester (oscilloscope)
- Easy setting of the default tignition timing using a stroboscope
- Programmable in an application (easy FW upgrade through RS-232)



Service Program Manager is used for visualization, configuration and diagnostic of UIS. The UIS can be connected not only locally via RS-232, but also via dial-up connection (a modem connection) or via Internet (integrated Internet-bridge of UniGEN control system which is connected to UIS via RS-485)



Using the set of UniGEN-UIS-USC-UVR (CHP control system, ignition controller, speed governor, voltage regulator) can be realized complete control of a cogeneration unit. Individual components communicate with each other via RS-485, there isn't other wires. With the integrated internet-bridge you can monitoring and setting all connected components from your PC!

