

object: XEV editorial

XEV: the ideal solution to control electronic expansion valves

Dixell's XEV series modules, used with refrigeration instruments, permit the user to increase the efficiency of the plant with superheat regulation. They are able to drive pulsed electronic expansion valves, in this way the superheat regulation is independent from the weather and load conditions. They can supply up to 30W, in this way driving valves of any refrigeration power and any manufacturer.

The XEV series is equipped with a special regulation algorithm, for example: "**Cool Defrost** (to reduce the formation of frost on the evaporator), **Injection Managing** (to signal any refrigerated problems and to prevent flooding of the evaporator), **Fast Recovery** (to recover normal functioning after superheat alarm situations) and **Start Function** (to avoid critical start conditions)". These algorithms increase performances of these modules, making them unique on the market.

Available in 4 DIN format, the XEV series is composed of 2 models: XEV12D (with display and keyboard on board also for programming) and XEV11D (blind and programmable with a separate KB1-PRG keyboard). On XEV12D, the display with measurement units and icons in front, shows quickly superheat, the valve time activation percentage, the value of the pressure transducer and the value measured by temperature probe. The programming procedure is easy and fast thanks to the HOT-KEY. Besides temperature probes Pt1000 or NTC, all the models can be used with 4÷20mA pressure transducer or ratiometric (0÷5V) transducer. In multiplexed cabinet applications, the devices configurable and can be used only with one pressure transducer; this signal goes to others modules through digital LAN.

Thanks to RS485 connection and ModBUS-RTU protocol, the XEV series can be connected to control supervise Dixell systems (XWEB3000 and XWEB500), besides all the ModBUS compatible systems.