Expertra™2A9
Traffic Signal Controller

TECHNICAL SPECIFICATIONS

CONTROL CAPACITY

Signal group	8/16/24/32
Demand inputs	24 loops / video detectors / 6 pedestrian buttons
Task segmentation	3 separate intersection management independent from each other

FUNCTIONAL FEATURES

Operating modes	• Flash mode
	• Fixed time operating mode (Multiplan)
	• Operating mode with isolated traffic warning (YTU, TTU)
	• Coordinated operating mode (Green wave)
	• Adaptive operating mode
	• Test mode
Intersection programming	• Identifying 5 separate structures for each intersection
	• 25 different programs, duration and structure selection during the day
	• 50 special day identification
Central communication	Two-way remote access
Warning information storage	Last 100 warning information for each species

ELECTRONIC FEATURES

Central processing unit	32-bit microprocessor
Communication between units	CanBus
Power unit	5V and 24V DC SMPS

INPUT/OUTPUT INTERFACES

Connection interfaces	GPRS / GPS / RS232 / RS485 / Ethernet
Internal control panel	240x128 graphic LCD display, function and numeric keypad

ELECTRICAL FEATURES

Operating voltage and frequency	230VAC (-15%, +10%) 50Hz (±4%)
Electrical protections	• Fault current protection switch
	• Two-stage EMI mains filter
	• Lightning protection
	• 25/32/50A W-automatic fuse for signal lamp outputs (2A fuse for each color output)
	• Electrical isolation with optocouplers
	• Electronic board overvoltage protection with varistors
	• 10A W-automatic fuse for fan and lighting

PROTECTION

Operating environment conditions	-25°C/+60°C 95% Relative humidity
Temperature compensation	30W resistive heater 15W fan
Outer cabin	2mm (±5%) DKP/Galvanized sheet
Cabin body	RAL 7032 Electrostatic powder paint
Protection class	IP55
Dimensions (h x w x d)	874 x 875,5 x 410mm

STANDARTLAR

Traffic	TS EN 50556
EMC	TS EN 50293
Functional safety	TS EN 12675
Certificate of Conformity	CE

ISTANBUL METROPOLITAN MUNICIPALITY

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