

Dukane Patented MPC* Multi - Point Control

The MPC unit is designed for assembly systems where one ultrasonic power supply is sequenced to several ultrasonic probes. Our unique Control and Process Monitoring Profile is available for each individual probe when coupled with a Dukane *iQ* Series ultrasonic generator.



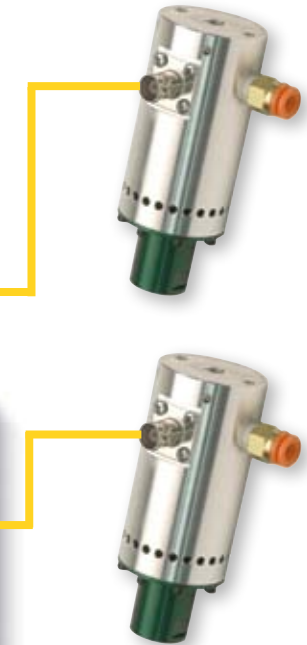
MPC 8 Probe Panel Mount

Control Features

- ▶ Weld by Time
- ▶ Weld by Energy
- ▶ Weld by Peak power
- ▶ Amplitude Selection
1% Increments

Process Monitoring

- ▶ Suspect or Bad Part Limits
- ▶ Min - Max Weld Time
- ▶ Min - Max Weld Energy
- ▶ Min - Max Weld Peak Power
- ▶ Fault Status



**System Status Indicator
Displays System Active and Faults**

- Green indicates system OK
- Orange indicates non critical fault
- Red Indicates critical fault

Probe Selection Indicator

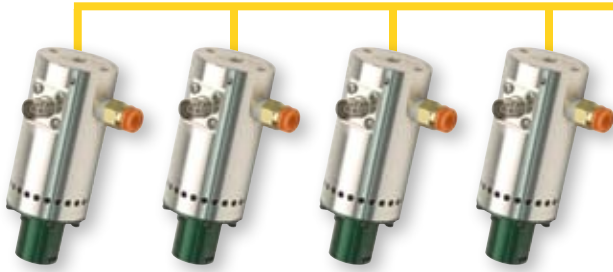
- Green indicates probe channel selected
- Red indicates ultrasonics active

MPC panel can be mounted in a through panel configuration as pictured here or as a external stand-alone module.

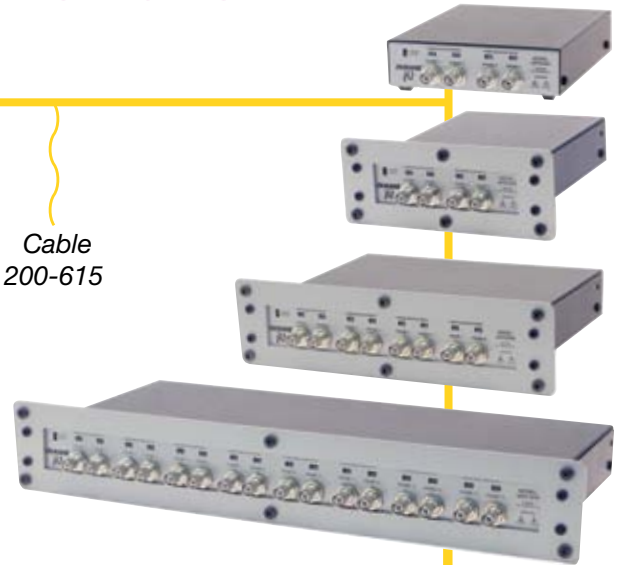
MPC has the ability to sequence up to 16 probes or converters and can be purchased from 2 to 16 point control. Color-coded status LED's insure ease of system operation and field troubleshooting. The MPC module can be used with all frequency and power levels of ultrasonic systems.

MPC Configurations

Connect up to 16 Probes



Cable
200-615



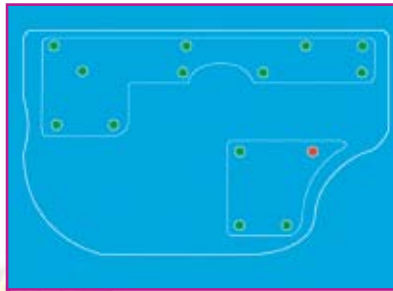
MPC Controllers

Some of the patented features include:

- Fully protected from improper programming and power line irregularities.
- Binary coded selection inputs prevents selection of 2 probe relays.
- Logic interlocks prevent selection changes when ultrasound is on.
- Ring-down monitor allows relay switching only when voltage is off.
- Fault monitor detects a shorted relay coil driver and halts operation.
- Hold-up time of internal supplies - designed to ride-out any line problem.

Eliminate equipment failures due to improper machine programming.

Dukane's Multi-point control coupled with a *iQ* series power supply offers independent control and process monitoring of weld time, weld energy, and amplitude. This allows for suspect or bad part alarms independent for each weld point. Typical automated machines using Dukane's MPC can have an illuminated part map that would immediately indicate to the operator potential weld defects. No other system offers this level of control.



Green – Good Weld
Red – Bad Weld



iQ
Auto



iQ
Automation
Ready



iQ
LS-E



Preferred System Control

iQ LinQ™ Communication Protocol

- Ethernet/IP • Profibus • Serial RS 232

Optional discrete I/O

200-1380 & 200-1381 Cables required

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