CP400: your HMI from ABB
Highest performance.
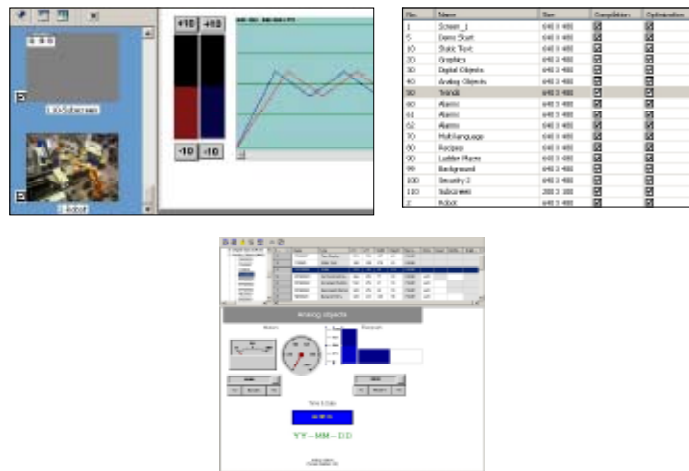## Increase your productivity... Change for more!

Performance and comfort,
your best choice for operator terminals

The ABB range of HMI operator panels offers an excellent diversity of features and functionality to facilitate maximum operator comfort at a price to meet requisite budgetary needs.

ABB operator panels offer highly efficient and effective functionality such as alarm and event management, graphics, animation, macro and Ladder Diagram functionality and recipe management. The range is available from a compact 3 inches monochrome version up to a large 10.4 inches colour TFT display.

Most models are available in either STN or TFT screen format.

Simplified adaptability and connectivity
Connect your HMIs to the various automation equipment:
– via the various **possible protocols** for ABB AC31, series 40&50, AC500-eCo and AC500 PLCs and more than 100 leading PLCs on the market, where the display acts as gateway. The multi protocol also allows data to be exchanged between the various controllers.
– via **multi-channel communication** (Connecting a controller to each available port via different protocols, transferring values between drivers via macros, using the values of various controllers in the calculations).
– via the **multiple connection media** (RS232, RS485, RS422 or Ethernet…) increasing connection capacities.

Quick and easy project creation and management
Quickly view and easily manage your project components using the **screen manager** (detailed list or screen miniatures).
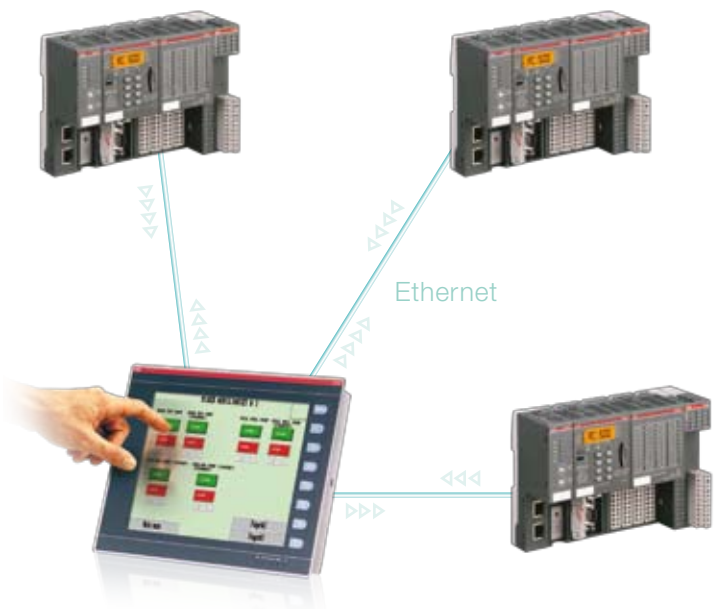
Simplify the creation, modification, sorting and identification of your project data via the **cross-references** function.

Easy testing and use
Test your projects, screens and alarms as well as your communication and controller functions quickly via **on- and off-line simulation**. Change language quickly and easily using the **multi-language support function.**
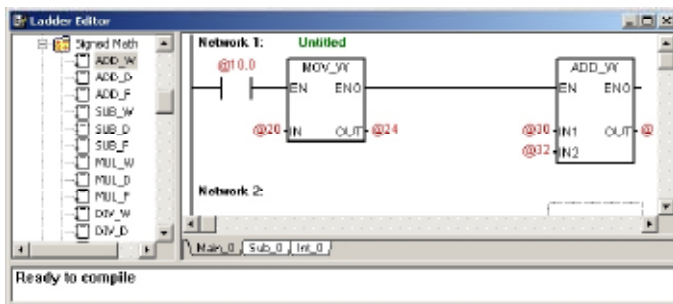
Secured data and operations
Protect your files and machine configurations using global and object-specific passwords (9 protection levels) to prevent downloading of the application.

Ethernet

Simplified creation

Simplify the creation of your projects using:
– the **Macro** and **Ladder** functions, providing you with ready-
  to-use modules such as arithmetic functions
– quick and easy retrieval of your PLC's variables by **variable
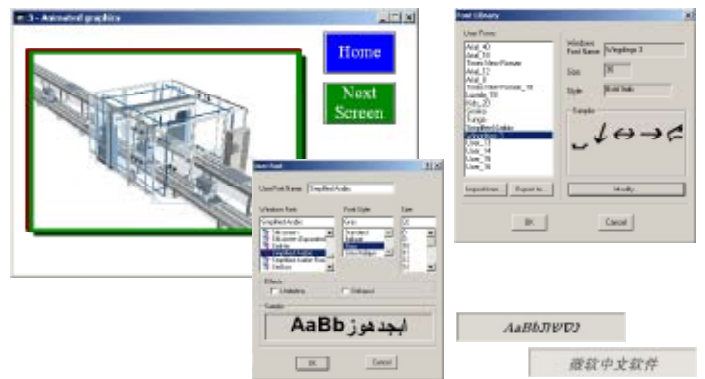 import**.

Easy template choice

Satisfy your requirements by choosing the HMI which is most
adapted to your needs in terms of dimensions, colours, func-
tions and connection.

Enhanced visual comfort

Embellish your screens by using available or imported **fonts**
and by importing **animated GIF images**.

Description	Type	Order code
Programming software	CP400Soft	1SBS 260 284 R1001
RS232 programming cable	TK401	1SBN 260 216 R1001
Programming cable	TK402	1SBN 260 217 R1001
RS232, AC31 communication cable (40&50)	TK403	1SBN 260 218 R1001
RS232, AC500 communication cable	TK405	1SBN 260 221 R1001
RS485, AC500-eCo communication cable	TK406	1SBN 260 224 R1001

Type	Order code
CP410M	1SBP 260 181 R1001
CP415M	1SBP 260 191 R1001
CP420B	1SBP 260 182 R1001
CP430B	1SBP 260 183 R1001
CP430BP	1SBP 260 192 R1001
CP430BP-ETH	1SBP 260 194 R1001
CP430T	1SBP 260 195 R1001

Type	Order code
CP430T-ETH	1SBP 260 196 R1001
CP435T	1SBP 260 193 R1001
CP435T-ETH	1SBP 260 197 R1001
CP440C-ETH	1SBP 260 187 R1001
CP450T	1SBP 260 188 R1001
CP450T-ETH	1SBP 260 189 R1001

	CP410M	CP415M	CP420B	CP430B	CP430BP	CP430BP-ETH	CP430T	CP430T-ETH	CP435T	CP435T-ETH	CP440C-ETH	CP450T	CP450T-ETH
Display type	LCD-STN 16 grey	Touch Mono FSTN 16 grey	Touch 16 blue STN	Touch 16 blue, STN	Touch 16 blue, STN	Touch 16 blue, STN	Touch 64K colors, TFT	Touch 64K colors, TFT	Touch 64K colors, TFT	Touch 64K colors, TFT	Touch 64K colors, STN	Touch 64K colors, TFT	Touch 64K colors, TFT
Display size	3"	3.5"	4.7"	5.7"	5.7"	5.7"	5.7"	5.7"	7"	7"	7.5"	10.4"	10.4"
Resolution (Pixels)	160 x 80	240 x 240	240 x 128	320 x 240	320 x 240	320 x 240	320 x 240	320 x 240	800 x 480	800 x 480	640 x 480	640 x 480	640 x 480
Brightness (cd/m2)	36	90	110	110	110	110	300	300	250	250	350	350	350
Contrast adjustment	Via VR (variable resistance)	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel	Via touch panel
Back-light type	LED	LED	CCFL	CCFL	CCFL	CCFL	CCFL	CCFL	CCFL	CCFL	CCFL	CCFL	CCFL
Back-light life	75 000 hours	40 000 hours	50 000 hours	50 000 hours	50 000 hours	50 000 hours	60 000 hours	60 000 hours	30 000 hours	30 000 hours	45 000 hours	50 000 hours	50 000 hours
Touch screen (number of times)	-	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million	> 1 million
Function keys / other keys	16 keys (10 of which may be function keys)	-	-	5 keys + 1 key menu	5 keys + 1 key menu	5 keys + 1 key menu	5 keys + 1 key menu	5 keys + 1 key menu	6 keys + 1 key menu	6 keys + 1 key menu	6 keys + 1 key menu	7 keys + 1 key menu	7 keys + 1 key menu
Application flash prom	4 MB	4 MB	4 MB	4 MB	4 MB	4 MB	4 MB	4 MB	8 MB	8 MB	8 MB	8 MB	8 MB
RTC (rechargeable lithium battery)	•	•	•	•	•	•	•	•	•	•	•	•	•
Ethernet	-	-	-	-	-	•	-	•	-	•	•	-	•
Alarm management	-	•	•	•	•	•	•	•	•	•	•	•	•
Recipe management	-	-	-	-	•	•	•	•	•	•	•	•	•
Data/Recipe	-	-	-		512 KB	512 KB	512 KB	512 KB	512 KB	512 KB	512 KB	512 KB	512 KB
Trends	-	•	•	•	•	•	•	•	•	•	•	•	•
Data storage (CF card)	-	-	-	-	•	•	•	•	•	•	•	•	•
Communication interface	1	1	2	2	2	2	2	2	3	3	3	3	3
USB 2.0	-	-	-	-	1 host + 1 device	1 host + 1 device	1 host + 1 device	1 host + 1 device	2 hosts + 1 device	2 hosts + 1 device	2 hosts + 1 device	2 hosts + 1 device	2 hosts + 1 device
Printer port	-	-	-	-	USB	USB	USB	USB	USB	USB	USB	USB	USB
Consumption	< 330 mA	< 330 mA	< 500 mA	< 840 mA	< 840 mA	< 840 mA	< 840 mA	< 840 mA	< 1 A	< 1 A	< 1 A	< 1.25 A	< 1.25 A
Dimensions mm L x H x D (external)	173 x 106 x 52	96 x 96 x 40.6	170 x 103 x 45	195 x 145 x 60	195 x 145 x 60	195 x 145 x 60	195 x 145 x 60	195 x 145 x 60	231 x 176 x 47	231 x 176 x 47	231 x 176 x 47	297 x 222 x 52	297 x 222 x 52
Weight (kg)	0.65	0.23	0.47	0.81	0.81	0.81	0.81	0.81	1.20	1.20	1.20	1.90	1.90

For the entire range:

– 32 bit RISC CPU

– graphics and text

– Macro and Ladder

– on-line and off-line simulation

– real time clock, password protection

– 4 MB or 8 MB flash memory

– 24 V DC ± 15% supply voltage

– ambient temperature: 0 to 50 °C

– IP65 class protection

– conform to ROHS

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