



## T 18 mini digital ULTRA-TURRAX®

/// Data Sheet

T 18 mini digital is an economical high-performance dispersing instrument with a wide speed range of 3000 - 25,000 rpm for working volumes of up to 1.5 liters (H20). It enables the user to work at high circumferential speeds even with small rotor diameters. The compact design of this disperser allows for operation in the tightest of spaces. A large TFT display ensures easy readability from a greater distance, even from outside a fume hood. This setup is best suited for simple applications homogenizing samples with low viscosity.

A broad choice of dispersing elements guarantee a wide range of applications for efficient emulsification, homogenization, dispersing and suspending as well as reduction of particle sizes to the micrometer range.







- Digital speed display and adjustment
- Brushless motor for improved motor lifetime, quieter operation and more hygienic applications
- Timer function for unattended operation
- Dispersing elements: stainless steel option with a high chemical resistance or plastic options that come in two sizes
- Quick insert for easy change of dispersing elements for convenient cleaning and maintenance
- USB interface for remote control and parameter documentation with the IKA labworldsoft® software

All S 18 dispersing tools and accessories are compatible with this the T 18 mini digital. The dispersing tool is not included in the scope of delivery.





## **Technical Data**

Motor rating output [M]     160       Volume range (H2O) [I]     0.001 - 1.5       Viscosity max. [mPas]     2000       Speed arange [rpm]     3000 - 25000       Speed deviation [%]     3       Speed daylatment     stepless       Speed display     LED       Noise without element [dB(A)]     75       Motor principle     Brushless DC       Extension arm diameter [mm]     13       Extension arm length [mm]     160       Process type     yes       Timer     160       Process type     jes       Timer display     LED       Permissible ON time [%]     100       Dimensions (W x H x D) [mm]     66 x 186 x 100       Weight [kg]     5 - 40       Permissible relative humidity [%]     80       Protection class according to DIN EN 60529     IP 30       USB interface     yes       Voltage [V]     100 - 240       Frequency [Hz]     50/60       Power input tandby [W]     210       Power input tandby [W]     3       Do Voltage [V-]     48<	Motor rating input [W]	210
Viscosity max. [mPas]     2000       Speed range [rpm]     3000 - 25000       Speed deviation [%]     3       Speed adjustment     stepless       Speed display     LED       Noise without element [dB(A)]     75       Motor principle     Brushless DC       Extension arm diameter [mm]     13       Extension arm length [mm]     160       Process type     batch       Timer display     LED       Permissible ON time [%]     100       Dimensions (W x H x D) [mm]     66 x 186 x 100       Weight [kg]     5 - 40       Permissible ambient temperature [°C]     5 - 40       Permissible antiont temperature [°C]     80       Protection class according to DIN EN 60529     IP 30       USB interface     yes       Voltage [V]     50/60       Power input [max. [W]     210       Power input standby [W]     250       Power input standby [W]     3       DC Voltage [V=]     48	Motor rating output [W]	160
Speed range [rpm]     3000 - 25000       Speed deviation [%]     3       Speed display     stepless       Noise without element [dB(A)]     75       Motor principle     Brushless DC       Extension arm diameter [mm]     13       Extension arm length [mm]     160       Process type     batch       Timer     yes       Dimensions (W x H x D) [mm]     66 x 186 x 100       Weight [kg]     1.8       Permissible relative humidity [%]     80       Protection class according to DIN EN 60529     yes       Voltage [V]     100 - 240       Frequency [Hz]     50/60       Power input fmax_[W]     210       Power input fmax_[W]     250       Power input face [V=]     48	Volume range (H2O) [I]	0.001 - 1.5
Speed deviation [%]3Speed adjustmentsteplessSpeed displayLEDNoise without element [dB(A)]75Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input fux]210Power input tamaby [W]3DC Voltage [V=]48	Viscosity max. [mPas]	2000
Speed adjustmentsteplessSpeed displayLEDNoise without element [dB(A)]75Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDDimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible arbient temperature [°C]5 - 40Permissible relative humidity [%]100USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input taxl. [W]210Power input taxl. [W]3DC Voltage [V=]48	Speed range [rpm]	3000 - 25000
Speed displayLEDNoise without element [dB(A)]75Motor principleBrushless DCExtension arm length [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Power input tmax. [W]50/60Power input tandop [W]3DC Voltage [V=]3	Speed deviation [%]	3
Noise without element [dB(A)]75Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible relative humidity [%]5 - 40Protection class according to DIN EN 60529IIP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [mx]210Power input standby [W]3DC Voltage [V=]48	Speed adjustment	stepless
Motor principleBrushless DCExtension arm diameter [mm]13Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Speed display	LED
Extension arm diameter [mm]     13       Extension arm length [mm]     160       Process type     batch       Timer     yes       Timer display     LED       Permissible ON time [%]     100       Dimensions (W x H x D) [mm]     66 x 186 x 100       Weight [kg]     1.8       Permissible ambient temperature [°C]     5 - 40       Permissible relative humidity [%]     80       Protection class according to DIN EN 60529     IP 30       USB interface     yes       Voltage [V]     100 - 240       Frequency [Hz]     50/60       Power input [M]     210       Power input tanaby [W]     250       Power input standby [W]     3       DC Voltage [V=]     48	Noise without element [dB(A)]	75
Extension arm length [mm]160Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible relative humidity [%]5 - 40Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]50/60Frequency [Hz]50/60Power input [W]210Power input standby [W]3DC Voltage [V=]48	Motor principle	Brushless DC
Process typebatchTimeryesTimer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30Voltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input standby [W]3DC Voltage [V=]48	Extension arm diameter [mm]	13
TimerTimer displayPermissible ON time [%]Dimensions (W x H x D) [mm]Weight [kg]Permissible ambient temperature [°C]Permissible relative humidity [%]Protection class according to DIN EN 60529USB interfaceVoltage [V]Frequency [Hz]Power input [W]Power input standby [W]DC Voltage [V=]48	Extension arm length [mm]	160
Timer displayLEDPermissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input standby [W]3DC Voltage [V=]48	Process type	batch
Permissible ON time [%]100Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input tandby [W]3DC Voltage [V=]48	Timer	yes
Dimensions (W x H x D) [mm]66 x 186 x 100Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Timer display	LED
Weight [kg]1.8Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Permissible ON time [%]	100
Permissible ambient temperature [°C]5 - 40Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Dimensions (W x H x D) [mm]	66 x 186 x 100
Permissible relative humidity [%]80Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Weight [kg]	1.8
Protection class according to DIN EN 60529IP 30USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Permissible ambient temperature [°C]	5 - 40
USB interfaceyesVoltage [V]100 - 240Frequency [Hz]50/60Power input [W]210Power input max. [W]250Power input standby [W]3DC Voltage [V=]48	Permissible relative humidity [%]	80
Voltage [V]     100 - 240       Frequency [Hz]     50/60       Power input [W]     210       Power input max. [W]     250       Power input standby [W]     3       DC Voltage [V=]     48	Protection class according to DIN EN 60529	IP 30
Frequency [Hz]     50/60       Power input [W]     210       Power input max. [W]     250       Power input standby [W]     3       DC Voltage [V=]     48	USB interface	yes
Power input [W]     210       Power input max. [W]     250       Power input standby [W]     3       DC Voltage [V=]     48	Voltage [V]	100 - 240
Power input max. [W]     250       Power input standby [W]     3       DC Voltage [V=]     48	Frequency [Hz]	50/60
Power input standby [W] 3   DC Voltage [V=] 48	Power input [W]	210
DC Voltage [V=] 48	Power input max. [W]	250
	Power input standby [W]	3
Current consumption [mA] 4500	DC Voltage [V=]	48
	Current consumption [mA]	4500

